# POLK'S
MODEL CRAFT HOBBIES

# HO MODEL RAILROADS

1944 EDITION

25 CENTS

# Model Railroads—at War

On the major lines—"Pennsy", "St. Loo", "Central", "B & O", "Katy" and "Soo"—the purchasing agents work from the invaluable Car Builders Encyclopedia. In the "HO" and "OO" field, on every major model line from coast-to-coast, the purchasing agents have POLK'S supply and maintenance guide. The two are synonymous, rendering the same complete service in their respective fields.

As preliminary inspection shows, the product of every established manufacturer is represented in its pages. (POLK'S is the official, authorized factory distributor for each.)

By convenient "sectionalizing," it enables you to consider all the comparable items available for every model need. Study individual specifications in relation to your particular layout; compare costs and, finally, select the units that are best suited to your "pike".

In the time elapsing between commencement and publication of this catalogue, the infamy of Pearl Harbor made its impress upon American history. It has obviously affected every catalogue published since then.

It electrified our peace-loving republic into a virtual arsenal. Model railroading with its "high percentage" of metal consumption has been severely affected. Many items listed herein have "gone to war."

As a consequence, you may have to revise your contemplated purchases and accept second or third choice items. Thus when making up your order be sure to list alternates in order of acceptability to you if your first choice is not available.

If conditions make it necessary to suspend your railroad program but you wish to continue your modelling hobby activities, we direct your attention to the wide choice of other fascinating interests available at POLK'S. Our model ship, airplane, and craft departments have the widest variety of merchandise in the nation. Visit or write for illustrated catalogues on these hobbies. Ship catalogue, 25 cents. Gas model airplanes, 5 cents. Solid model airplane catalogue 10 cents.

**Polk's Model Craft Hobbies**

# DECLARATION OF INTENTION

We are not going to try to sell you model railroading in this catalog, nor are we going to take up the battle of the gauges in favor of HO.

If you were not interested in model railroading as a hobby you would not ask for a model railroad catalog. If you did not have some faint idea that HO might serve your needs you would not ask for this particular catalog.

LET'S BE FRANK. You want all the railroad you can get for your money. You want trouble free operation. And simplicity of construction and maintenance. You want to know the advantages, and the disadvantages, of your chosen gauge. You *don't* want to try anything beyond your ability, or your means, nor anything that will lead you up a blind alley.

It is our intention in this catalog, to give you the simplest, the least expensive and the least troublesome methods and equipment to be used in HO model railroading.

Some of the old timers, the experts, and the manufacturers in HO may feel that they have better methods and suggestions than those offered in this catalog. We do not dispute any claims they may make. On the contrary, we will always attempt to carry the largest, the most diversified, and the most complete stock of model railroad supplies in the country, to please every buyer possible

# POLK'S STANDARDS

It is not our intention to list every item, in our stock, that is available to model railroaders. It is our intention to list only those items which POLK'S has selected as the "BEST" for you, Mr. Average Model Railroader, as well as, for the beginner. We have drawn upon our years of experience in model railroading and in merchandising model equipment, to select the equipment described and listed in this catalogue.

In purchasing manufactured goods, it is necessary to know all the items that are being made, and to purchase only that which measures up to our standards. Those standards are based on a complete understanding of the high quality of materials used by model builders, as well as, the constant requests for items that have been proved to be worthy of your selection.

In purchasing merchandise for resale to you, we make certain that: 1. Its construction is simple. 2. Its construction is rugged. 3. Its satisfactory operation may be relied upon. 4. Its maintenance will not be excessive in trouble or cost. 5. Its value for dollar paid is tops.

# "REMEMBER PEARL HARBOR"

Blame it on the Jap if you cannot always get all of the items you want in the quantity you want and at the price you expect to pay. We are at war.

We hope to keep our stock *always* as complete as possible but the needs of our country come first with us, as we are sure they do with you. Nor do we intend to profit in any way by the present situation. We have a large stock, but we do not intend to raise prices, ceiling or no ceiling, on any item until we are forced to do

so, and we will keep all prices as low as possible for your benefit.

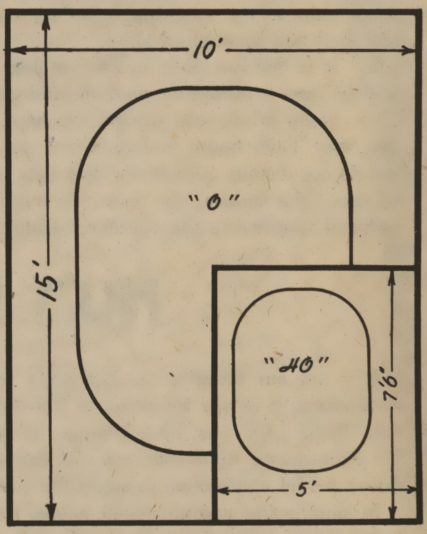
Model railroading is a defense hobby. It teaches many of the technical skills and the ability to handle tools so necessary to today's defense efforts. It provides relaxation from the worry and the tension of the times.

The pursuit of this hobby need not deprive our country of any of its critical materials. Let us help you to devote your spare time efforts to a constructive, interesting and pleasurable hobby.

# "WHAT IS HO"

"HO" means half "O" gauge. It was developed in the attempt to obtain the smallest practicable operating model railroad.

Since model railroading began it has been the hope and the desire of the great majority of model builders to build the greatest amount of model railroads into the smallest amount of space. Continued progress in the development and excellence of design of electrical and mechanical equipment involved has brought practical electrical train operation down to a scale of approximately ⅛ of an inch to the foot, 3.5 millimeters to be accurate.




## *"What Are the Advantages of HO"*

Because limitation of available space for model railroads is a very real and ever present problem to every model railroader, HO must receive earliest consideration in a model railroader's building plans. We will assume, however, that the amount of space you have decided to devote to your layout will not permit the use of a larger gauge than HO, or that your ambitions lead you to hope for an eventual complete model railroad.

We will assume that you prefer the impression of great perspective and distance of view to intricate detail of engine and car construction.

We will assume that you want realism in the appearance of your railroad and its operation.

If our assumptions are correct, you have the right gauge.

Allow us for one moment to call attention to the fact that the same space allowed for an O gauge layout could hold four replicas in HO gauge.

With the same amount of space, therefore, the HO layout, compared with O gauge, could be four times as extensive in trackage or cover a great deal more territory scenically with a consequent increase in realism of appearance.

Realism after all, is the highest goal possible to a model railroader. It is the one thing that you can enjoy in common with your friends who do not understand the pleasure obtained from detailed construction.



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Every man, woman, and child, can appreciate and enjoy the thrill of watching a miniature world in action. Everyone has stood, at some time or another, upon a high hill watching a seemingly tiny train thread its way through the valley below, through the woods, across the rivers, and past the stations that seem like miniature. What greater satisfaction could your hobby bring you than the appreciative pleasure of your audience while you demonstrate on your own pike a similar experience?

## *Limitations of HO Gauge*

Before you get too deep in model railroading and your choice of gauge, let us understand that HO also has its disadvantages. It is not our intention to unsell you, but rather to avoid misleading you. Nothing could cause you greater disappointment than to find yourself the purchaser of headaches, troubles and disappointments because you did not know or understand the limitations of HO. Half built kits and model railroad layouts that never run, to speak from a selfish standpoint, never have brought us a continuous flow of satisfied customers. POLK'S wants to develop customers, to increase business, and they cannot do it by leading you into disappointing adventures and extravagant expenditures. This catalog was designed to help you make HO model railroading as simple to understand, as easy to build, and as fool proof to operate as is possible.

Don't start by expecting things you can not get. Let us outline the limitations of HO, then if you want to go on, you will know what problems lie ahead of you, what you must do to solve them, what you must avoid, and what satisfaction and pleasure can legitimately be yours.

1. In the first place, HO is not a toy. It was not designed to be operated by children. Do not buy an HO model railroad or the material to construct one for the edification and amusement of your four to nine year old child. Itchy fingers and careless feet will do more damage in a minute than you can repair in weeks. Well meaning, good intentioned children cannot hope to understand or operate an HO model successfully.

We do not want to start an argument on this point. You may have a child who is either a genius or extremely well taught, but the average boy or girl cannot be expected to operate HO. Build it for your own pleasure of accomplishment. Keep the children away except as spectators and educate them to it when they grow old enough to understand it.

2. All HO is TWO RAIL. If you are not prepared to go into the few electrical problems involved in two rail operation, don't bother with HO. Two rail is no problem in a single circle of track, but your probable reason for going HO was to obtain a large amount of trackage in a small amount of space.

Large trackage, numerous switches, crossovers, and the like, are going to involve a clear understanding of two rail principles and careful study of their application for your layout. Again, this is not a subject for children, but an interesting problem for adults.

There are several good books on "Two Rail" which make the whole process easily understandable. Incidentally, two rail has its advantages. With it, it is easy to obtain positive reversing and automatic block and switch control, and it *looks* like a railroad.

3. All true scale HO is operated on DC current. You just use either a storage battery with a trickle charger or a power pack for your source of power.

4. Track work and switch work must be perfect. Slight irregularities in gauge or in levelness of the track are certain to cause frequent and most annoying derailments. Do not expect to lay your own track tie by tie, rail by rail, and spike by spike, without considerable pains and trouble. Do not expect to make your own switches without meticulous care and frequent headaches. POLK'S approved equipment will help you to avoid this snare.

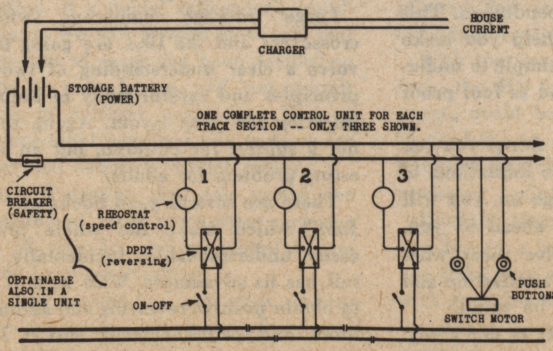
5. Dust is a deadly enemy of an HO railway for the current must come from the two rails on which the trains run, the wheels are small, the engines light, and difficult to oil without the excess oil finding its way to the tracks. The oil attracts dust and dust prevents the flow of current and the operation of the trains. This is not a problem, it is a condition and must be taken into account.

6. HO is the least expensive of the model railroad gauges, but don't expect to buy CHEAP. Cheap price usually involves a gamble with cheap materials. Perhaps you will be fortunate—perhaps not. If you don't mind constant tinkering, you can gamble with cheap prices, but if you want dependable operation, don't try it. Our purpose in marking certain equipment as POLK'S approved, is to guide you towards a happy middle ground away from equipment that is too cheap, and of equal importance, more expensive than necessary. You can't buy too good, of course, but you don't have to go to extremes to buy dependable equipment.

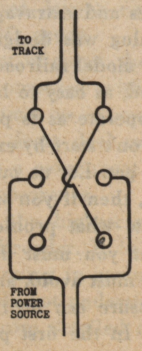
7. Don't expect continual effective operation of your layout without maintenance. The very size of the HO equipment indicates the possibility of delicate construction. Continual use will require frequent cleaning, lubrication, and occasional replacement of worn parts. This is not a serious problem to a person interested in his hobby, but its necessity would be appreciated.

8. Don't expect too much *speed* in the assembly of kits and locomotives. Either you must buy ready made equipment or TAKE YOUR TIME. Small work requires PRECISION work. Care in assembly will make for pleasurable running —carelessness, nothing but trouble.

Never did the saying "Haste makes Waste" find so appropriate a use. Now that we understand each other, we can go further. If you want a hobby and not a plaything, and you are game for a little real interesting hard work, you have a fascinating path ahead, and we will try to make it as smooth and as trouble free as possible.




Electrical Hook-Up




Wiring for a DPDT Switch



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1, N. Y.

## American Flyer

If you have not bought an American Flyer or Gilbert HO train or have no intention of buying one, you can skip these next two paragraphs and go to the next heading. If, however, you already have such equipment or intend to get some in order to have trains that will operate immediately in a reasonably satisfactory manner, read carefully the few words following, and avoid the pitfalls and false expectations you may otherwise experience.

The American Flyer HO equipment is not interchangeable with HO equipment, without alteration. Let's repeat; either HO equipment must be changed to meet Gilbert standards or the American Flyer equipment changed to meet N.M.R.A. (scale) standards.

## Now—Let's Plan!

To many people planning is half the fun of building. If that is not the case in your instance, dig up a stack of back issues of the "Model Craftsman" or the "Model Railroader" and browse about until you find a layout that suits your fancy. Not a bad idea, even if you intend to make your own plan, for many ideas can be borrowed from as many different layouts and incorporated as a part of your complete plan.

It is also worth your while to read up a little on railroad practice in order to avoid mistakes in appearance and operation which would never be tolerated on a real railroad. The real railroads have reasons for everything. If your railroad is to look realistic and operate in a realistic fashion, it must follow the same rules used by the big railroads. (Read a book like David Marshall's "Model Railroad Engineering," or Ralph Henney's "This Fascinating Railroad Business.")

## Point of View

Two other considerations are important in planning your layout. If your spectator is to stand in one position, the planning of the layout could present *one* point of view. Your track, layout, and scenery could be arranged as one part of a large terminal, or a small wayside station, and it would appear to be complete as it stands.

Another type of layout could give a panorama effect. The spectator would be, in effect, on a high hill viewing an extensive scenic view stretched out below him. Whichever type of layout you choose, you will find a study of previously built layouts both instructive and informative. In no case should you attempt too much rail, geometric designs, or track for track's sake. The whole attempt of the model railroader should be for a sense of expansiveness.

One further consideration of importance in your planning will be OPERATION. This is not important if you intend to run your trains round and round in a circle. But if you intend to achieve realistic operation you want trains to appear to come from somewhere and to go somewhere. In other words, you will want your railroad to appear to have a reason for existence. After all, real railroads serve the public and types of business provided by the particular territory in which it is located. Why not arrange your layout and your selection of scenery accordingly?

If you want more track, without running to switches and crossovers, make loops camouflaged and hidden from each other in such a way as to give the appearance of several trains appearing at several different points.

If your space conditions do not permit loops and ovals, why not try a point to point sysem? Avoid long straight stretches of track, however, allow the trains to

follow the contours of the hills and valleys from one terminus or turn to another. It adds to impression of realism and distance.

If you like large amounts of trackage and complicated switch operations, why not model a terminal where trains can arrive and depart from various tracks and platforms, travel out upon your pike, a reverse loop and return.

Freight yards offer a great variety of switching operations and interesting storage facilities for your increasing rolling stock.

Engine terminals although requiring space, are also interesting. Again we refer you for reference to several books on model railroad practice or real railroad practice and to back copies of the "Model Railroader" or "Model Craftsman" for layout ideas.

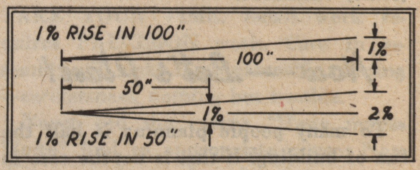
## The Table

Once a layout plan is reasonably well established your table construction can begin. If a perfectly flat railroad is desired, your bench construction can be covered with plywood or Masonite and tracks and roadbed board laid directly upon it. This does not, however, make the most interesting railroad, for railroads usually travel through varied country, over elevated hills, through depressed cuts, or over bridges and through tunnels, always making the layout more interesting.

The open table platform, illustrated briefly below, allows for lakes, villages, rivers, mountains and other scenic ideas. It also allows variation in level of the rail.

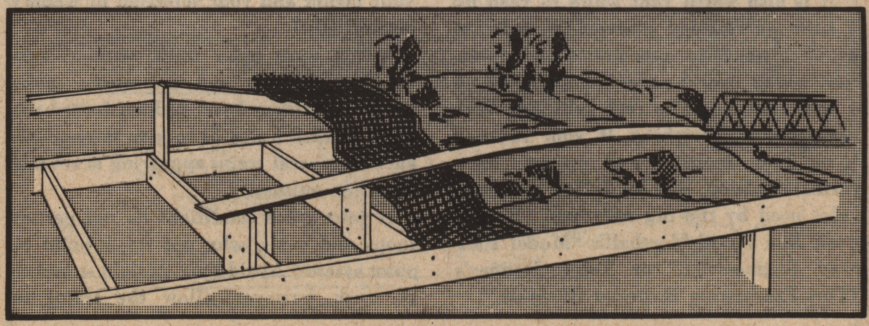
Grades should be kept as gradual as possible in order to prevent reduction in pulling capacity of your locomotive. One percent (or a rise of one inch per hundred inches) is suggested although two to three percent grades are not unusual in a real railroad, and can be graded in HO model rails with good locomotive power or small trains.

The following diagram illustrates the manner in which one percent grades can be achieved in fifty inches rather than one hundred inches where one track is to cross another by the simple expedient of depressing the lower track at the rate of one inch per hundred while raising the crossing track in equal percentage.




## Rolling Stock

The more cars, the more variety in rolling stock, the more interesting your railroad will look. Private owned refrigerator cars are certain to add color and life to your switching operations and long freight drags.





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Just a tip on this car business, however, don't go in for light-weights. Locomotives in HO are bigger and stronger than ever before and can haul a good sized load—and your cars will hang to the tracks better if they have a little more weight where weight belongs, in and just above the tracks. Automatic coupling operations are particularly troublesome where light cars are used, for a heavy hand on the controls can cause a bump that will set cars right off the tracks at the most inconvenient place on the layout, always just out of reach.

Go in for cars with metal parts, metal underframe and the like, if you get them, for they make substantial, well riding cars and the detail stands right out like it really ought to. Of course this war business is going to make the use of metals more and more difficult, but many good car kits can still be had that use good quality metal underframes and hardware.

When the metal supply runs out, use wood kits with good quality lithographed sides—and don't glue the parts together. Use airplane cement. Home-made glued cars and others have been known to fall apart on the layout after a little spell of damp weather.

Use automatic couplers, too, if it is at all possible, for they permit more realistic railroad operation than any other one gadget you can add to your layout. This catalog will illustrate and price some good ones. Try them.

Passenger cars can now be had with more variety and detail than ever before, even to age. Open enders, pullmans, diners, observation cars, baggage cars, railway mail, express cars—all the varieties you see on the full sized railroads can be yours for a little money and a lot of fun in the making. Tie them up to the right locomotive and you'll be carried away with the realism of your own creation.

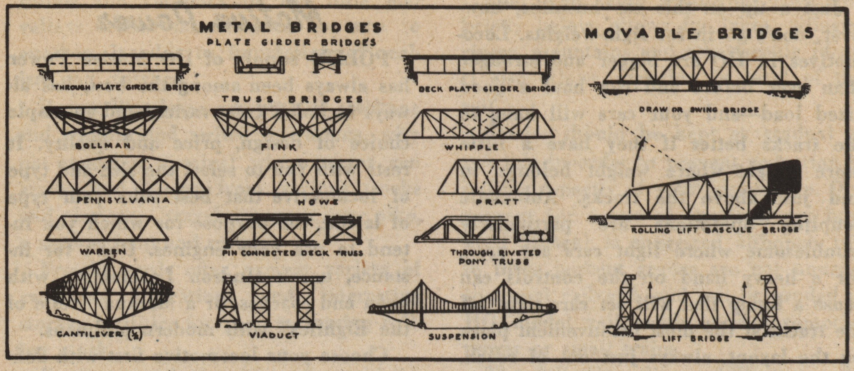
## Motive Power

POLK'S supply of HO Motive Power has always been among the best, has always included great variety and an ample choice of design, price and quality. It rests with you to select the size and type of locomotive that best suits your type of layout, the purpose for which you intend to use your engines. Don't for instance, use a Hudson Locomotive with open end coaches, or a Mantua "Belle of the Eighties" with modern pullmans.

Choose your locomotive first with definite forethought on the radius of your curves. A Varney Articulated 2-8-8-4 for instance, will run best on a minimum radius of 30", although they have been put over 24" radius. Of course, returning to realism of appearance and operation, the object is not to see how tight a curve you can squeeze an engine into—but to make the curve appear as much like the sort of thing you would find on a real railroad. It is a safe bet that you won't find any 24" curves, proportionately speaking, outside of industrial yards, sidings, or perhaps on small branch lines and narrow gauge mountain climbing roads.

Save the sections where you must use very tight curves for your yard-goats, your Diesel switchers, and as the radii increase, mix in a few large switchers and old time locomotives like the Mantua 8 Ball Mogul and the "Belle of the Eighties." When you get out on the main line with your long freight drags, pick up a Mikado or Consolidation, but if you want a really big and powerful job, use a Varney Articulated.

Bridges, trestles, tunnels, cuts, and embankments, should be planned and their requirements included in the laying of the foundation of a model railroad track. If two track construction, switches, or cross-overs are to be used in the future, provision for them should be made if possible, in the original layout to avoid tearing up scenery and rebuilding foun-




dation bench work. For reference in planning track clearances, tunnel clearances, station clearances and the like, we give you several diagrams below which we think are self explanatory.

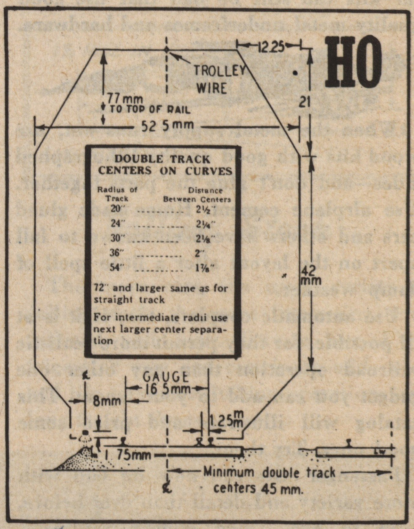
## Track Construction

POLK'S especially indicates the advisability of using ready made track. Many HO model railroaders have bought and laid their own track, ties, and ballast successfully. But the precision and care necessary to good operation in HO would make "ready made" track far more desirable. Several are listed in this catalog. All of them good, all of them at present available.

The Mantua Metal Products Co. have a splendid ready made two rail track that answers every requirement. Rails are permanently attached to ties exactly as to gauge. Sections, straight or curved, can be layed down as is, or bent to suit the requirements of your layout. Straights can be made into curves, or curves into straights, radius of curves can be increased or decreased as desired.

All that is required in curves is to nip off the tip of one rail or the other so they will meet the next section evenly, for, of course, a change of curvature will change the location of the ends of the rail.

Mantua makes excellent switches which might better be purchased ready for operation rather than attempt to fabricate one's own switches. Don't forget that your track and switches must be PERFECT.




Model Craft Hobby Products have developed a new HO switch and crossing which can be obtained in HO or OO sized rails, complete with or without ties.

The HO switch with OO rail is made to permit American Flyer trains to operate without converting them to N.M.R.A. standards.



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When you want to Highball, try a Pacific, Atlantic, or a New York Central Hudson; or a Varney Streamliner—if you have a suburban line try a Reading Camel Back—and on the older branch lines gone modern or on the interurban routes try an M-U car and trailer—a true suburban car—and somewhere in your layout run a Trolley right up to the station.

## Signals

When it comes to signals in true HO scale, look over the catalog and store stock. We won't go into a lengthy discussion of "how to do it" and "when not to do it" but we can promise you an ample choice of equipment to either "Doll Up" your pike or to put it on true automatic control.

Speaking of controls, there are ways and ways of controlling your model trains. The neatest and most compact control boards are usually the best and the most convenient to use. We have them ready made or ready to be made to suit your individual requirements; you lay it out and we'll put it out.

## Atmosphere and Buildings

We could go into pages of description of our elaborate stock of Model Railroad Buildings in HO gauge. However, according to an authority which we cannot remember, each picture speaks a thousand words apiece. Therefore, we leave the choice of the proper building for the proper spot on your pike to your perusal of the many thousand words to be found in the pictures in the catalog.

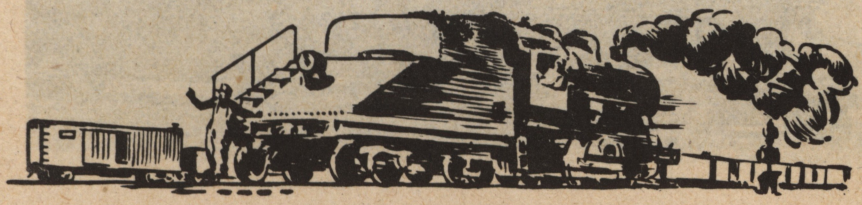
You will find a building for every need, whether it be for the needs of your railroad or to give the appearance of a need for your pike. Roundhouses, water towers, signal towers and bridges, switch shanties, and more—or freight houses, factories, homes and the like.

Trees, shrubs, fences, mail boxes, road signs, and railroad markers, all the life and color your heart could desire. Yes, and you can people your miniature villages, stations and streets with realistic people in true scale, in poses that are as true to life as you can possibly imagine.

And don't forget backgrounds. A single sheet will transform the whole appearance of your layout—give it depth and color, life and sparkle such as only an artist can create—for artists did create them.

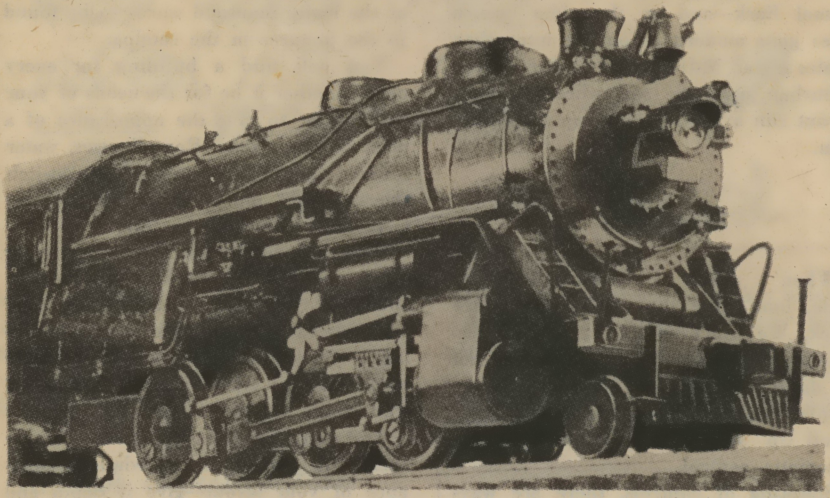
When you get all through with your spare time, war time hobby, or some portion of it in full detail, pull out the old camera and try a few shots. You will be surprised how near to life you can come—how interesting your scenes can be and how much fun you can have reproducing the scenes you have passed in your travels on the Nation's real Railroads.

We hope that we have helped you in the pursuit of happiness and your Hobby and that you will call on us and our catalog many times for further assistance whenever and if ever we may be of further help to you.



# HO Locomotives

## *Varney Consolidation 2-8-0*



This is a kit of the famous Reading Consolidation, which, with other locomotives of same design, used to be the work horse of all railroads up to the beginning of the roaring Twenties. Even today, we will find many of these locos still busy with "peddler freight" and in switching service at many great yards throughout the country.

Typical careful Varney construction is displayed in this kit, as in all others of this famous manufacture. The drivers are 18 mm., giving suggestion of great power to tackle long drags. Gear ratio is 29:1, which allows fair turn of speed out on the main. Drivers are sprung, increasing tractive force and making it possible to flange all drivers, thereby improving appearance of locomotive. As in all kits of this make, boiler is drilled and tapped wherever necessary. Complete set of plans and instructions included in each kit.

HOVL—801 Consolidation loco. assembly kit

HOVL—802 Finished locomotive

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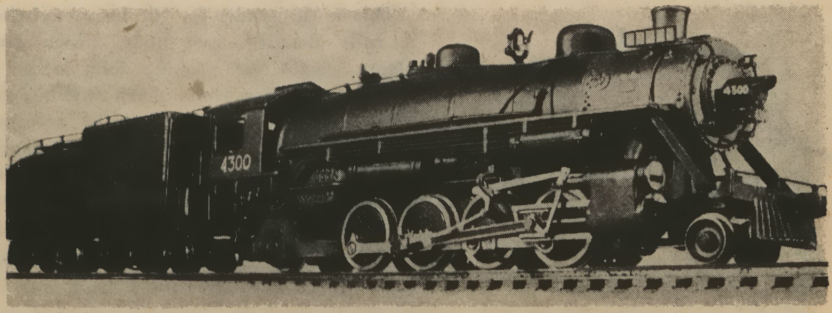
# HO Locomotives

## *Varney Mikado 2-8-2*

This model is a "free-lance" design. It was not taken from any particular engine, but as a type follows the general dimensions of the USRA light Mikado. A Mikado is a consolidation with an added trailer truck, which allows greater firebox capacity, thereby increasing steaming of the locomotive. (The boiler is the same as the Varney Pacific kit). Gear ratio is 29:1, with adjustable worm gear on the motor shaft allowing precision setting. Drive wheels are 18 mm. in diameter, the same as the Consolidation. Boiler is die cast with a great amount of detail added as well as being drilled and tapped with all the necessary holes for fittings. The above loco is powered with the famous Varney motor as are all the other Varney kits.

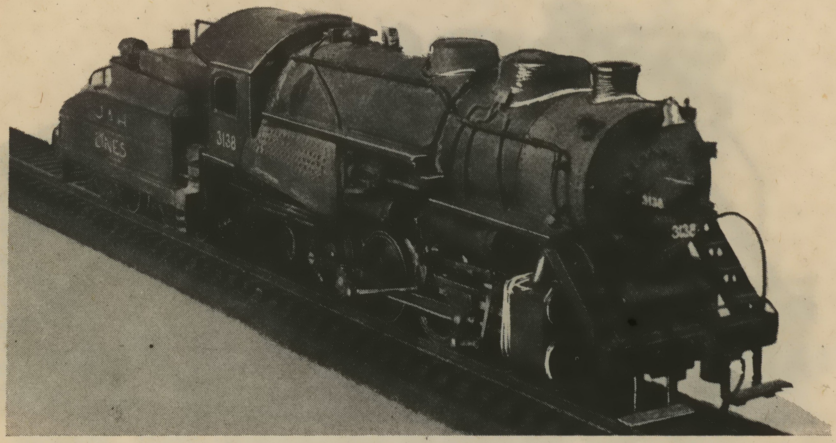
HOVL—803 Mikado loco assembly kit

HOVL—804 Finished locomotive



# HO Locomotives

## *Varney 0-8-0 Heavy Switcher*

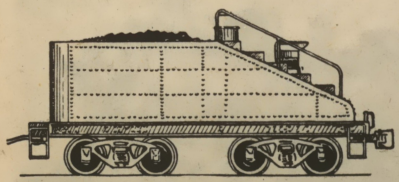


Here's the brute of the yard. A heavy switcher or shifter as they are called in some localities. General outline is the same as the Consolidation, the difference being, the pony truck is omitted and footboards are installed in place of the regular pilot. This engine can be used in general service, not only in the yard, but also on the main. Some railroaders go so far as to have a pony truck which they install when the engine is used as a road engine thereby making her a consolidation. Prototype is Reading Companies, same as Consolidation. This also holds true for wheel dimensions, (18 mm.), and gear ratio, 29:1. Powered with Varney Motor. We advise slope back type tender for this kit.

HOVL—805 Switcher assembly kit

HOVL—806 Finished Locomotive

## *Varney Slope Back Tender*



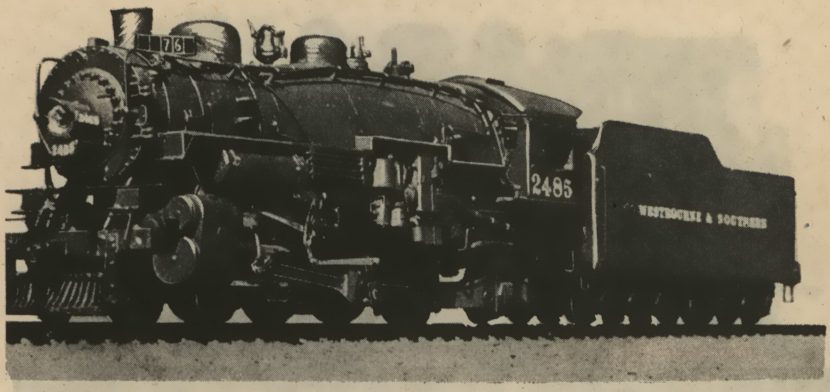
HOVT—807 Tender assembly kit

HOVT—808 Finished tender

This is the tender for the heavy switcher. A fully detailed, cast body, which gives plenty weight for pushing long string of cars through crossovers, sharp switches and curves often found in yards. As in prototype, a back up light is furnished. Cast in the body are steps leading down back of tender, as well as tank filling cap. Beautiful rivet detail has been incorporated. We recommend this tender for pikes which have heavy switchers.

# HO Locomotives

## *Varney Pacific 4-6-2*



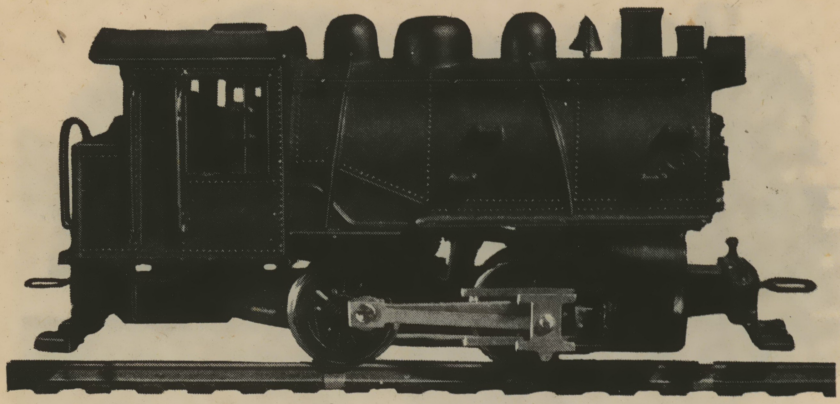

Another famous locomotive, used throughout the country for passenger and fast freight service. Some of these high stepping "babies", have 72", (21 mm.) drivers and are used for heavy passenger and fast freight service, others have 80" (23 mm.) wheels and are used almost exclusively in limited passenger service. Before the Hudson, or Baltic type of engine was introduced, the Pacific was the Queen of the high iron, and still is, running side by side with the later developments in motive power. Varney has taken the famous Southern Pacific R.R. Pacific as their prototype. With 72" drivers, this is a excellent engine to wheel the varnish, or hotshot freight. Plenty weight is obtained from die cast boiler, frame and cylinder block, so that the drivers will get a good bite on the rails, and sprung drivers makes rough track a cinch. Full instructions and detailed plans are included with every kit. Gear ratio is 29:1, making for smooth operation, not only for starting, but also for crawling along through interlockings and when the board is set at caution.

HOVL—809 Pacific loco. assembly kit

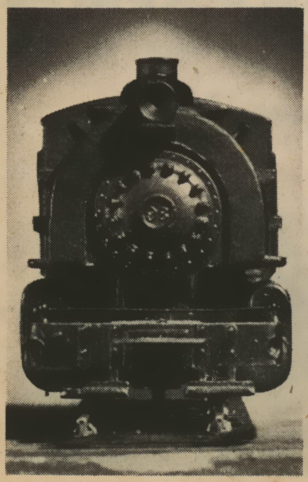
HOVL—810 Finished locomotive

# HO Locomotives

## *Varney 0-4-0 Saddle Tank Switcher*



The last word in small engines that really do the job. Will turn on a dime and be a big help around the yards. If you are cramped for space you can run this little mighty midget around curves with a radius as small as six inches. This switcher is known as the "Dockside Switcher" and is used to switch the cars along the waterfront of Baltimore for The Baltimore and Ohio railroad. "Little Joe" has made possible some of the most unique card table layouts yet developed. It is the ideal starter for small homes, apartments, and window display layouts. The simple construction process and easy assembly methods enable almost any modeller to build and finish the complete locomotive in one evening.



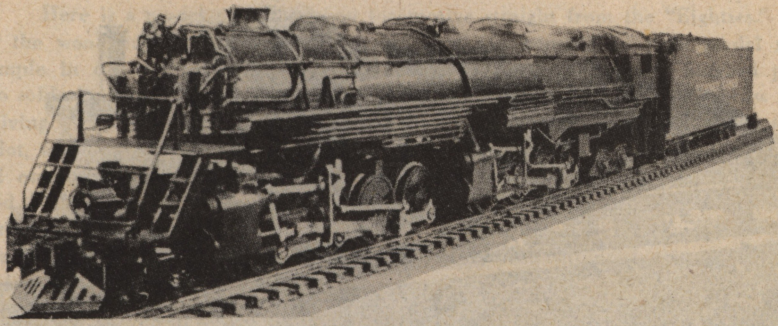
The body is die cast in one piece and is highly detailed. The main fittings are cast to the body and the detail of the rivet heads are clearly visible. The cylinder head, frame and frame bracket are also die cast with all the necessary holes drilled and tapped for assembly. The drive wheels are brass rimmed and mounted on the axle as is the drive gear. The motor is a Pitman permanent magnet D.C. 6 volt. Paint and brush are included in each kit. Clear plans and complete instructions with illustrations give all the information for easy completion of this little midget in one evening. Couplers of your own choice can be added easily.

HOVL—811 Complete assembly kit

HOVL—812 Finished "Little Joe"

# HO Locomotives

## *Varney Articulated 2-8-8-4 Yellowstone*

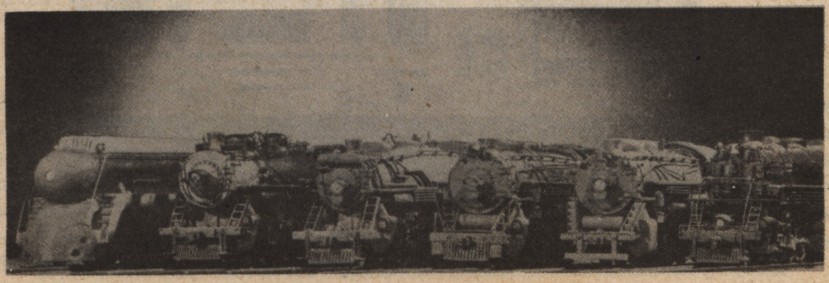


Here is a locomotive, that any model railroader is proud to own, even the boys that say all big ones are the bunk. Picture in your mind's eye this giant coming round the bend or snaking through a reverse curve with a string of freight from here to there and back tied on to it. That's railroading. Fans with card top layouts please omit. (Don't be disappointed boys, we have the Dockside for you. Run 4 together and you have the same idea.) Here's the dimensions of this midget:— Loco length; 11⅜", overall with tender 18". Extreme width 1⅝". Height above rails 2¼", weight less ballast 2¼ lbs. Overhang on 30" radius curve, (recommended), 1" beyond outside rail.

Powered with Varney motor, geared 35:1, this engine will haul as many cars as one would want to put behind her. Boiler is a one piece casting with domes and stack cast integral. Tender is included with locomotive in kit. Of course, fully detailed plans and concise instructions are included. In this particular engine, the front drive unit is a dummy, that is to say, there is no power fed to same, only the rear unit does the actual driving. With a little ingenuity, it is possible to transmit power to the front unit, with a flexible drive, or as one chap did it:— he drove the first set of drivers from the motor mounted on the second unit and the second unit was driven with a tender drive, mounting motor in tender. We believe that there are no end to possibilities with this hog.

HOVL—813 Articulated loco. assembly kit

HOVL—814 Finished Locomotive.



# HO Locomotives

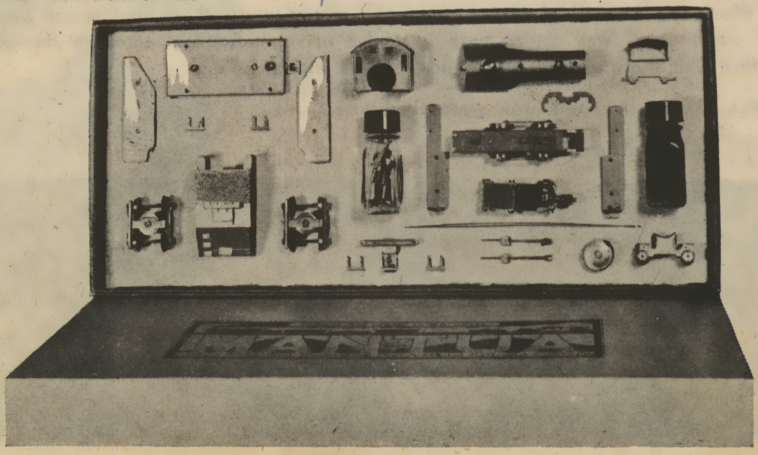
## *Mantua 0-4-0 Camelback Switcher*

**This powerful little switcher kit is designed for easy assembling and its unique contours add interest and makes possible the intricate switching of cars with ease. The brass tired wheels are mounted on axles and frame. The cabs, boiler, side platforms, are ready to assemble. The soldering has been done; no cutting, drilling or tapping is necessary. Die cast boiler front, cylinder block, tender frame, sides and body are die-cast, showing rivet detail and are easily assembled. The motor and drive shaft and worm are all in one unit. The extra brass and die-cast equipment is contained in a bottle. A complete set of understandable instructions, screws, paint, decals are included to enable even a beginner to complete this model in one evening—ready to run.**

**HOML—822 Motor and tender kit**

**HOML—823 Motor and tender kit finished (tested and painted)**

**HOML—824 Tender kit**



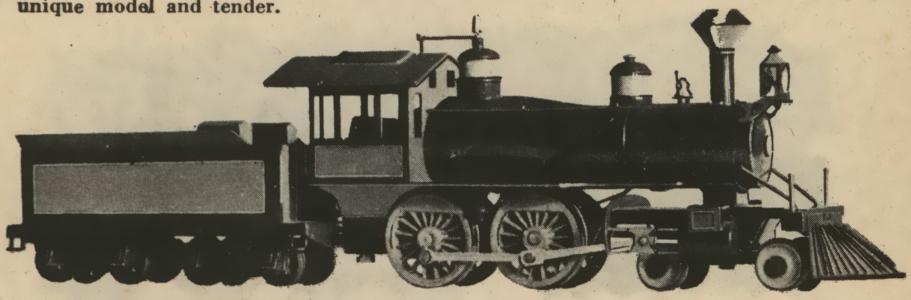



*Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.*

# HO Locomotives

## *Mantua-Belle of the "80s"*

Here is a model of an old-time locomotive straight from the "Eighties." It is of the wood burning type and will add color and contrast to your model road. Simple in construction; it takes but a few hours to assemble the finished parts. No soldering, cutting, drilling, tapping or special tools are necessary. The brass tired driving wheels are assembled on axles and mounted in frame. Die cast boiler front, pilot, and lead trucks, cylinder blocks, running boards, etc., are finely detailed and all essential holes are drilled or tapped. A formed brass boiler, cab, rods, stacks and dome are ready to be assembled. Smaller parts of the side rods and assembly, screws, and equipment for added detail are contained in a bottle. Paint and decals are included with clear, understandable, complete instructions, for assembling this unique model and tender.



## *Specifications*

**Length—8⅛" locomotive and tender (scale 58½')**

**Height—2⅛" (scale 15')**

**Drivers—Scale 72"**

**Gear Ratio—38-1**

**Motor—No. 201 6-8 Volt D.C.**

**Materials—Brass and die castings**

**HOML—819 Working model kit**

**HOML—820 Finished model (tested and painted)**

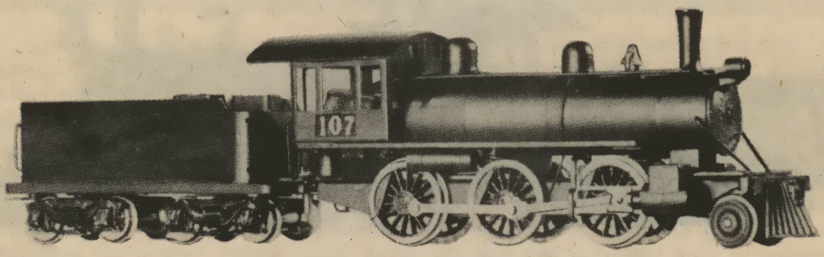
**HOML—821 Complete tender kit, trucks, paint and decals**

**MEMO FOR THE MODELLER.** Here is a little advice if you plan to do any soldering around your layout or on your Locos. Don't use solder to join parts that will be subject to strain. Sooner or later it will give way. Never use solder to fasten any long or continuous piece of metal. A mere change in temperature will set up a strain that will break soldered connections in a straight piece of copper or brass a yard long or even less. Aluminum just will not solder, and iron and steel are pretty tough going. Stick to copper, brass or tin to avoid any trouble.

# HO Locomotives

## *Mantua "Eight Ball" Mogul*

**This popular locomotive is a companion to the other Mantua locomotives. This is the most versatile type and can be used for Main Line-Freight, Passenger or Work Train service. The easy construction method is similar to all Mantua kits and consists of brass tired drivers, mounted on axles; brass boiler, stack and domes, and formed cab sides. The detailed die cast boiler front, cylinder block, side platforms and pilot, cab roof, etc., are finished and ready to assemble. The tender body is die cast in one piece and is drilled, tapped ready to mount on tender frame and trucks. Motors, gears and all necessary equipment for detail is included with paint, decals, and an easy plan of assembly instructions. Just an evening of fun to build this powerful and practical little "Eight Ball"!**




**HOML—825 Complete assembly kit**

**HOML—826 Finished model**

## *Specifications*

**Length—8" locomotive and tender (scale 57½')**

**Height—1⅞" (scale 14')**

**Weight—15 ounces**

**Drivers—Scale 61½"**

**Motor—No. 201 6-8 Volt D.C.**

**Gear Ratio—38-1**

**Materials—Brass and die castings**

**MEMO FOR THE MODELLER. The best way to oil Locos is with a hypodermic needle. If you can't find one, apply oil on the top of a tooth-pick to be sure it goes where you want it and no place else. An ordinary oil can will get pools of oil all over everything and dirty the track. It's a positive menace around an HO railroad. Oil frequently but sparingly, and particularly on the worm-drive and motor bearings, which run at high speed. Don't forget a little on the side-rods and crossheads and valve gear. Light watch or sewing machine oil is good for this purpose.**

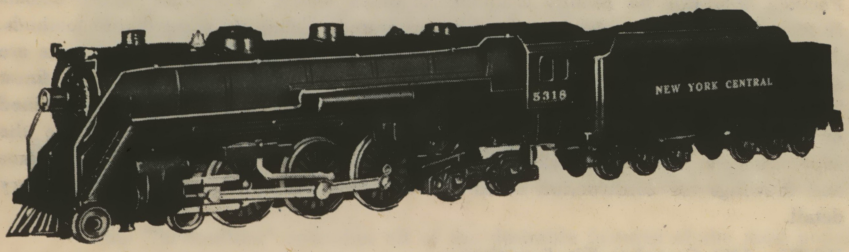


*Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.*

# HO Locomotives

## A-C Gilbert 4-6-4 Hudson & Tender

This locomotive always adds prestige to a model railroad. The detail is typical of those used by the New York Central Railroad. The body is die cast and all holes are drilled and tapped where necessary. A cast boiler front, cylinder block and engine front ready to be assembled. The motor mechanism is attached to underframe and wheels—ready to run. The tender is die-cast in one unit with underframe and tender trucks ready to be added. This motor is equipped with a remote directional control ready to be mounted in tender, and is intended for A-C current only. Paint, decals, and complete instructions, in fact everything to build this locomotive in one evening, are included.




HOGL—827 Locomotive and tender kit complete

HOGL—828 Finished model (painted and lettered)

## Specifications

**Length—13½" locomotive and tender (scale 97')**

**Height 3 3/16" (scale 16')**

**Drivers—Scale 76"**

**Gear Ratio—20-1**

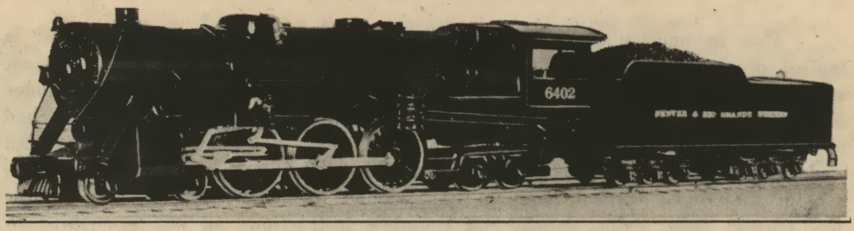
**Motor—A-C 7-15 Volts**

**Materials—Die-castings, Brass and Tenite**

**MEMO FOR THE MODELLER.** Dirty track causes more trouble than all else put together. The antidote is to lay a dust-cover over the railroad when not in use. If trains run jerkily or there are sparks under the wheels then track and wheels need cleaning. A cloth duster, preferably silk or old linen which has the lint mostly washed out of it, or muslin, will be useful. A four-inch paint brush will be very handy. To remove oil from rails, wrap a dry cloth around your finger. This will remove a surprisingly amount of dirt. Then wet the cloth with carbon tetrachloride, or alcohol. This should get all of it off the track. If not, use emery-cloth or a block of wood.

# HO Locomotives

## W. K. Walther's Baltic 4-6-4 Hudson




This well known and popular model of the Chicago, Milwaukee, St. Paul & Pacific's F-6, can be readily adapted to other 4-6-4's. The latest improvements in manufacturing processes have been incorporated to simplify construction methods. The frame is made from a bronze casting. Side and main rods and valve parts are accurately punched and ready for assembly. The bearings are made of the finest Tobin bronze. Cylinder block, smokebox front and all necessary holes are machined or drilled. The brass punchings of the body are factory assembled, while the superstructure is finely detailed. Paint and transfers are included. A set of plans and drawings for construction detail and assembly methods are complete in every detail.

HOWL—6401 Complete Kit, 5 sections

HOWL—6402 Finished Locomotive

### Specifications

Length of Locomotive—7 3/4"

Length of Tender—5¼"

Combined length—13"

Width—1½"

Height—2⅛"

Weight of locomotive—1 lb., 6 ozs.

Minimum radius—30"

Valve gear—Walsch

Drivers—23 mm.

### Method of Making Drivers

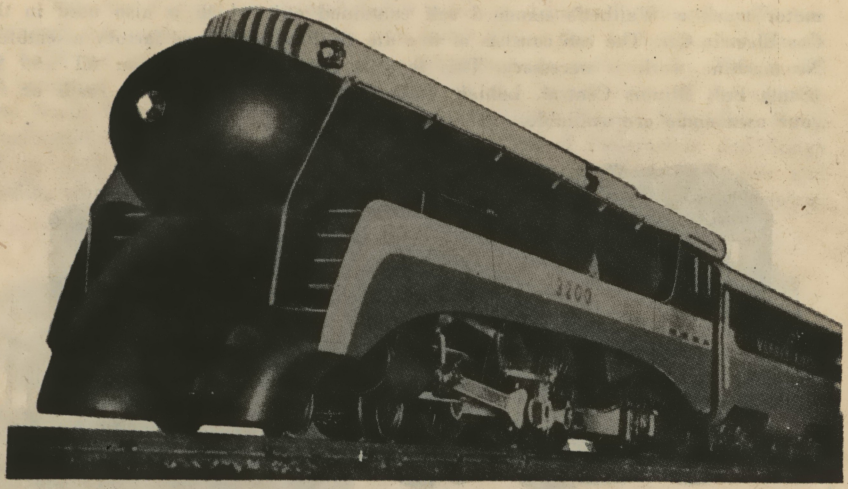
Walthers now is making drivers for the Baltic Locomotive in a new way. Instead of the usual die cast center with brass rim, they are turning rims and hubs to size and then moulding tenite spokes in place. This is an improvement as far as insulation is concerned, because the rim is completely insulated from the hub. For the non-insulated wheels the hub is shorted to the rim. These nev drivers are interchangeable for use in the older type frames. When supplied in pairs, they are mounted and quartered and furnished with 2 bearings. Highly detailed wheels are obtained by this process.



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.

# HO Locomotives

## *Varney Streamlined Pacific*

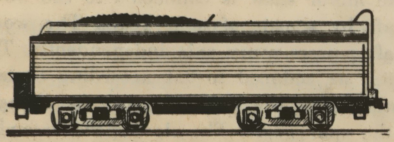


**This "Streamliner" embodies all of the desirable features of the most popular of the steam locomotives which have been "dressed up." Varney has made a composite from which it is but a simple task to follow exact design on any one of a half dozen locomotives. The body is heavy enough to impart tremendous pulling power, and long enough to add a four wheel trailing truck to make a Hudson 4-6-4. The model above was assembled from a stock kit without any modifications. Prototype is more or less Southern Pacific Daylights. For those who want a streamliner whipping around their layouts, here's the answer. Body is cast in one piece, and with very little work all details may be added. Mechanism is standard Varney Pacific using 72", (21 mm.) drivers.**

**HOVL—815 Streamline assembly kit**

**HOVL—816 Finished locomotives**

## *Varney Streamline Tender*



**HOVT—817 Tender assembly kit**

**HOVT—818 Finished tender**

**Here is a good inexpensive kit for the Streamline loco. Follows lines of locomotive and streamline cars, which may be obtained for use with engine. Furnished with 4 wheel roller bearing trucks. Simple in construction, being a block of wood, with cardboard sides.**

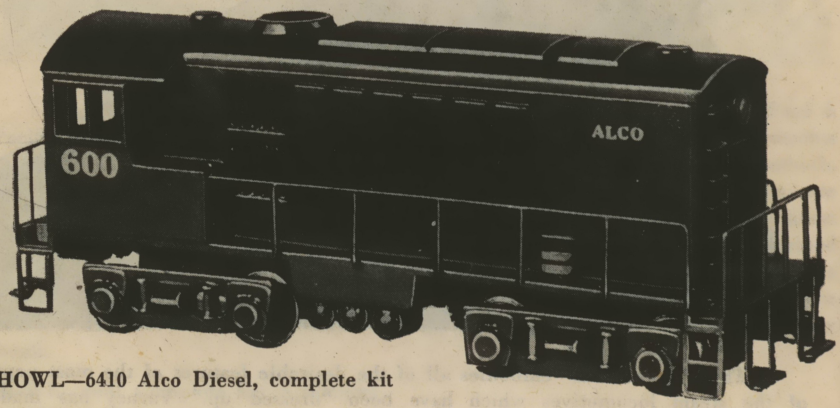


*Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.*

# HO Multiple Units

## *W. K. Walther's Diesel Switcher*

This model Alco Type locomotive is about the easiest model to build. The motor truck is Walther's standard self contained unit which is also used in the Gas Electric Car. The cab consists of five die castings which are factory assembled. No machine work is necessary. This loco is in regular service on AT and SF (Santa Fe), Illinois Central, Lehigh Valley, etc. Lettering for other roads or for your own name are available.

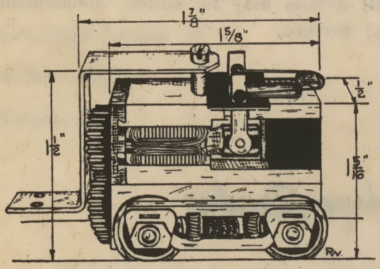



**HOWL—6410 Alco Diesel, complete kit**

**HOWL—6411 Parts for cab only**

**HOWL—6412 Finished model**

## *Power Units*




W. K. Walther's self contained power trucks have made multiple unit cars and diesel switcher popular among many railroaders. Both units use Pittman permanent magnet motors which operates on direct current, 6 to 8 volts. The motor is mounted above the gear box, which is made of brass tubing accurately machined and punched. The motor shaft is connected to the worm shaft by a pair of spur gears. The worm shaft powers every axle independently. The worm ratio is 12:1 but is increased to 18:1 or reduced to 9:1 according to how the spur gears (19 & 26 teeth) are mounted. Thus the gear ratio can be changed at any time by reversing the position of the spur gears. The slow speed assembly is used on the Birney and Alco switcher and high speed (9:1) on all multiple unit cars.



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.

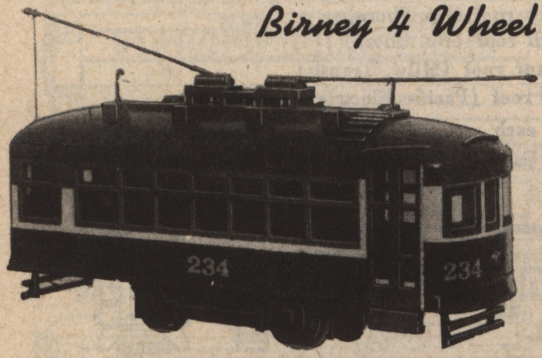
# HO Multiple Units

## *W. K. Walther's Gas Electric Car Kit*

This gas electric car pictured below needs no lengthy introduction. We recommend this model to the beginner who wants power that is inexpensive, simple to build yet good to look at and powerful enough to pull a train. This model is patterned after the rail motor cars used on the branch lines of the Chicago and North Western Road. It can also be lettered Union Pacific, Milwaukee Road, Burlington Route or Minneapolis and St. Louis. Plan of construction and design of parts is the same as for Walther's passenger cars. Kit includes power and trailing trucks, die cast front, body and detail parts including transfers and drawing.

HOMU—5650 Complete kit, as above
HOMU—5651 Body kit only, less trucks
HOMU—5652 Finished car
HOMU—5653 Trailer car kit (coach sides) with trucks
HOMU—U175 Trailing trucks, pair 4 wheel (metal wheels)
HOMU—U370 Trailing trucks, pair (tenite wheels)

## *Birney 4 Wheel Safety Car*




This little street car will operate on a 10" radius and will attract much attention. The body is die cast with rivet detail and all holes are drilled and tapped where necessary. Std. motor unit, assembled, celluloid for windows, decals.

HOMU—6611 Complete kit

HOMU—6616 Finished Birney

HOMU—6612 Body kit only

MEMO FOR THE MODELLER. When drilling small holes, the drills are likely to bend and break. This can be prevented by soldering a brass tubing sleeve over all but the last ⅛ in. of the drill. In the absence of brass, a wooden sleeve will do. This can be made by drilling a piece of thin doweling with the next smaller size drill, using this as a sleeve.

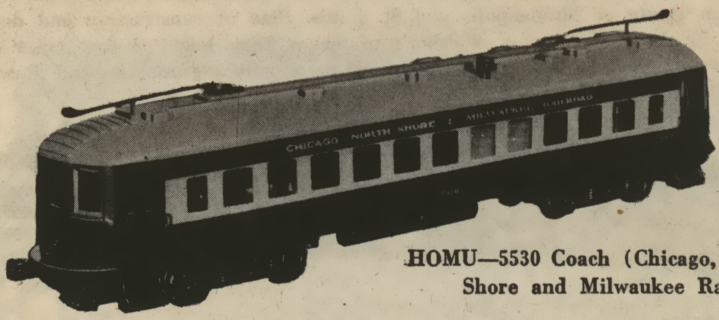


*The Nation's Leading Hobby House*

# HO Multiple Units

## *W. K. Walther's Suburban-Interburban Kits*

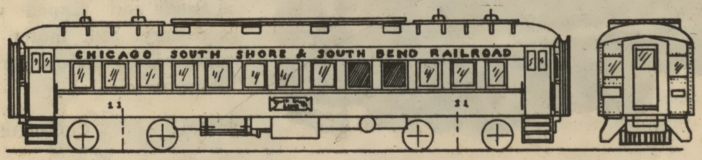
**These cars are built the same as Walther's passenger cars except equipped with U240 power truck and one U174 trailer truck. Trailer kits are equipped with two plain trucks. Complete instructions for easy assembly. All types are priced the same. The prices listed include transfers for lettering.**



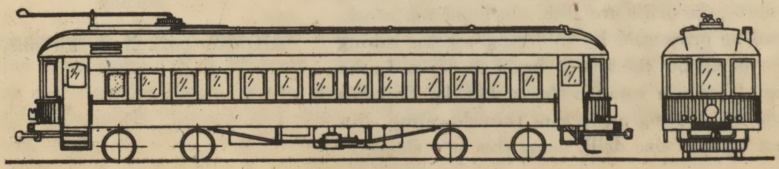

**HOMU—5530 Coach (Chicago, North Shore and Milwaukee Railroad)**

**HOMU—5525 Coach, 68′ Monitor roof (Penn. I. C., Lack., N. Y. C.)**
**HOMU—5526 Combine, 68′ Monitor roof (Penn. Lack., N. Y. C.)**
**HOMU—5527 Coach, 68′ Arch Roof (Long Is., New Haven)**
**HOMU—5528 Coach, 50′ Arch roof (CSS & SB)**
**HOMU—5529 Combine, 50′ Arch roof (CSS & SB)**
**HOMU—5530 Coach, 50′ Arch roof (No. Shore)**
**HOMU—5531 Combine, 50′ Arch roof (No. Shore)**
**HOMU—5532 Express, 50′ Arch roof (No. Shore)**
**HOMU—5533 Coach, 50′ Monitor roof (Milw. Transit)**
**HOMU—5534 Coach, 50′ Arch roof (Pacific Electric)**

**HOMU—5535 Power car kits, each**
**HOMU—5536 Finished Power Cars, each**
**HOMU—U240 Power Truck**
**HOMU—5537 Body kits without trucks**
**HOMU—5538 Trailer Car Kits, trucks**
**HOMU—U370 Trailer trucks, pair**




**HOMU—5528 Coach HOMU—5529 Combine**



**HOMU—5533 Coach**



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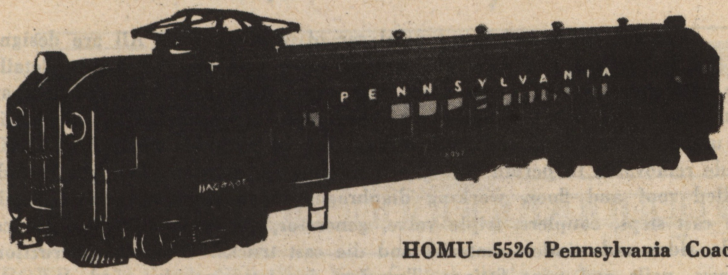
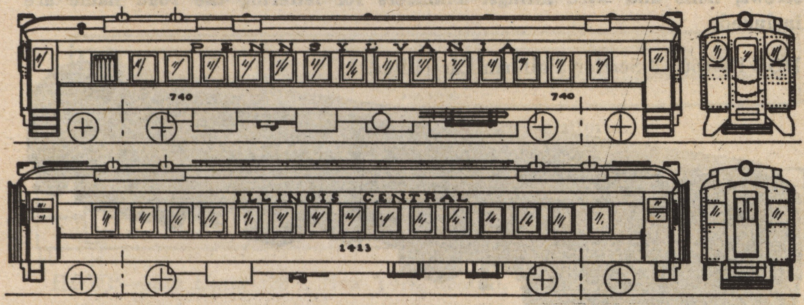
# HO Multiple Units

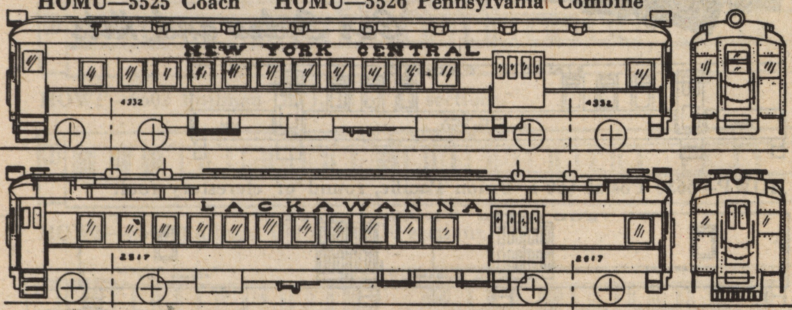
## *W. K. Walther's Suburban-Interburban Kits*



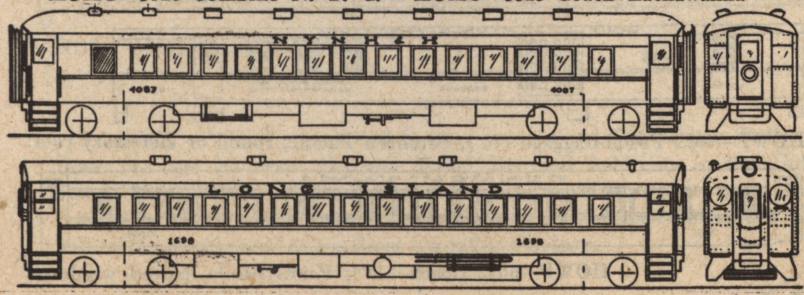

HOMU—5526 Pennsylvania Coach




HOMU—5525 Coach HOMU—5526 Pennsylvania Combine




HOMU—5526 Combine N. Y. C. HOMU—5525 Coach Lackawanna




HOMU—5527 Coach



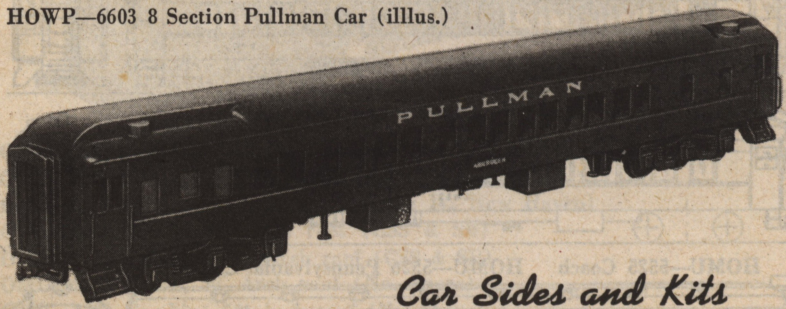
*Please Order by Both Name and Number*

# HO Passenger Car Kits

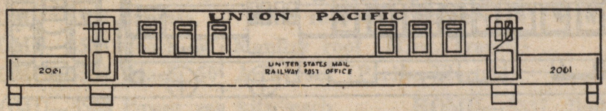
## *W. K. Walther's Passenger Car Kits*

**The car illustrated is a typical car of Walthers line. All are designed in the 3½ millimeter scale. Features of these cars are the highly detailed die cast ends, pressed metal sides with panel doors, windows punched and letterboard and belt rail embossed. The sides are channeled for assembling to undersides of floor and roof without use of nails on sides. Roof can be made removable to permit fitting and lighting the interior. The kits include: milled roof and floor, working diaphragms, roof and underframe details, die cast steps, couplers, triple valve, generator, air brake cylinder, die cast ends, sides and window material and die cast trucks. Complete instructions, screws, nails and wire fittings. Transfers for lettering the road name are included.**

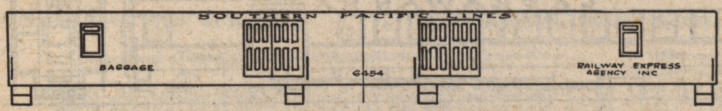
HOWP—6603 8 Section Pullman Car (illlus.)



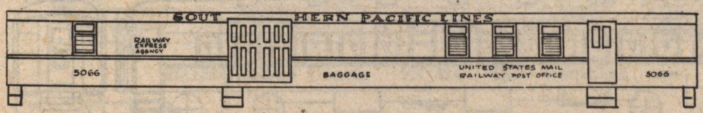

## *Car Sides and Kits*



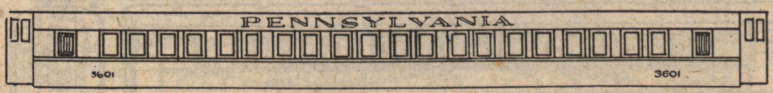

HOWP—6630 Postal (60′), Union Pacific, round or clerestory roof.




HOWP—6620 Baggage (70′), Southern Pacific, round or clerestory roof.




HOWP—6629 Postal-Baggage (70′), Southern Pacific, round or clerestory roof.



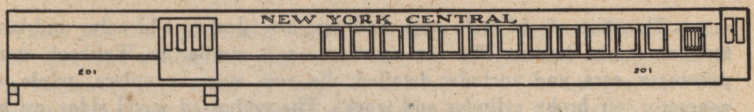

HOWP—6672 Coach (70′), Pennsylvania, paired windows.



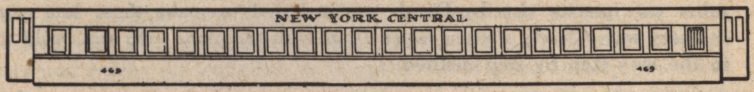
*Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.*

# HO Passenger Car Kits

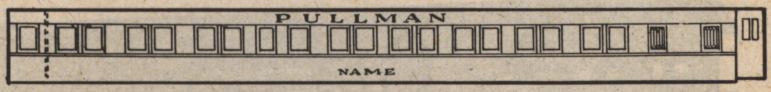
## *W. K. Walther's Passenger Car Kits*



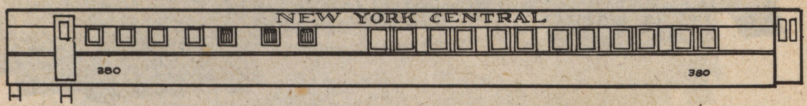

HOWP—6640 Combine (75′), New York Central, single windows.




HOWP—6670 Coach (75′), New York Central, single windows.

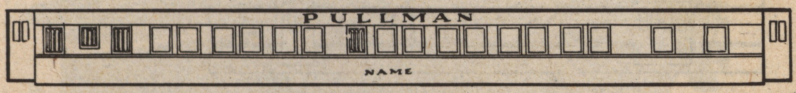



HOWP—6601 Observation (80′), die cast rail and platform.

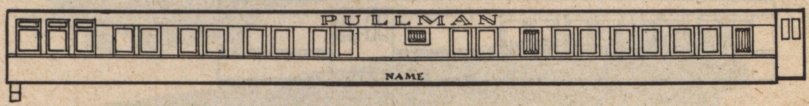



HOWP—6610 Diner (80′), New York Central, all roof fittings.

HOWP—6602 Pullman (80′), 12 or 14 sections.

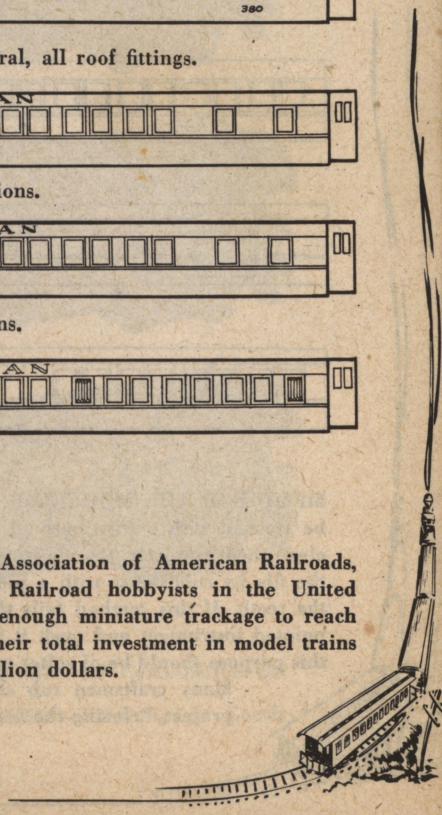



HOWP—6603 Pullman (80′), 8 or 10 sections.




HOWP—6607 Solarium (80′).

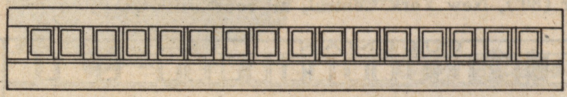
**According to figures compiled by the Association of American Railroads, these are one hundred thousand Model Railroad hobbyists in the United States. These hobbyists own and operate enough miniature trackage to reach from New York to San Antonio, Texas. Their total investment in model trains and tracks is estimated to be about ten million dollars.**



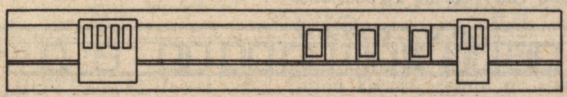
# HO Passenger Car Kits

## *W. K. Walther's Old Style Cars*

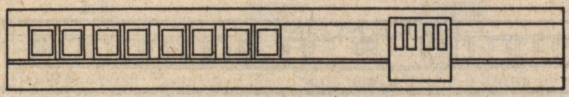
**This line of old style open end cars are ideal to add color and contrast to your model layout. The car construction is similar to Walther's standard passenger cars and include detailed die cast steps, couplers, triple valve, generator, air brake cylinder and trucks. The embossed metal sides are highly detailed. The milled wood roof can be easily removed to install lights and other car interior details. Decals are included to make these kits complete in every way. Clearly written instructions with the plans help you build the car in the easy step by step method.**



HOWP—6608 Coach, 54′



HOWP—6609 Postal-Baggage, 54′



HOWP—6613 Baggage-Coach, 54′

**MEMO FOR THE MODELLER.** Files that have become clogged can usually be cleaned with a wire bush. If the teeth are so clogged that the brush won't clean them properly, the clogging particles can be removed without damage to the file by rubbing it with a piece of copper or aluminum, directionally with the teeth. If this method fails the only way left is to use a scriber or other pointed instrument and push it through the grooves. The instrument used for this purpose should be of softer metal than the file in order not to cause damage. Many craftsmen rub chalk into their files before using them on a project, "closing the barn door before the horse is stolen."



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# HO Passenger Car Kits

## *Mantua Old Time Car Kits*

These old time passenger coaches, baggage cars, and combination cars are new and add atmosphere and color to your layout. The stamped metal roof is assembled and ready to snap on and off . . . for lighting, etc. The sides of stamped metal are formed for easy assembly. A row of seats for interiors, except the baggage are included. Stamped metal doors for the combination and baggage cars actually work. Die cast end doors, roof stock and formed wire end rails. Soldered Brake wheel and staff. Mantua automatic couplers and trucks are included. A complete set of plans to help you build this car in one evening. Finish lettering for 20 different cars are supplied.

**HOMP—700 Baggage Car**

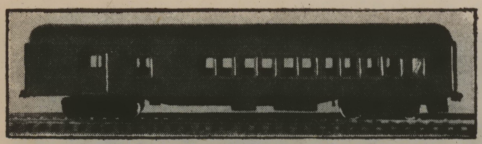
**HOMP—701 Combination Car**

**HOMP—702 Passenger Coach**

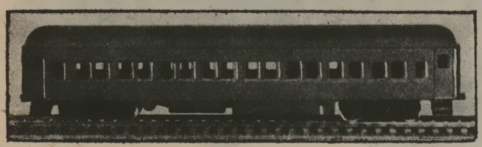
# HO Passenger Car Kits

## *Varney Standard Passenger Kits*

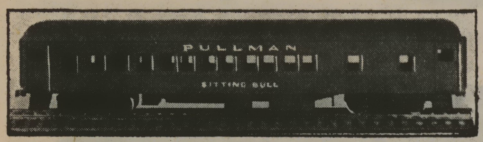
These cars are new in construction design. The sides show the shadow detail of units, window beading and door panels with glistening celluloid windows. A round roof of milled wood, floor ends and underframe parts are cut to exact scale and length. Die cast metal air brake cylinder, steps and dummy couplers are included. The combination, Baggage and Day Coach are full scale size. The Pullman Cars are short due to the demand for smaller radius curves in HO scale. Optional colors are green or tuscan red.



HOVP—30 Combination Baggage

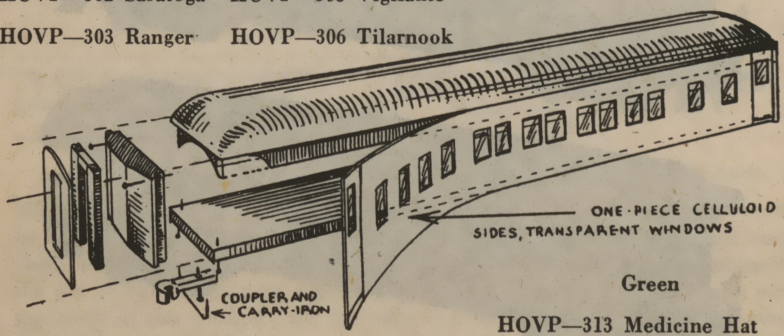


HOVP—40 Day Coach




HOVP—Pullmans (red or green)

HOVP—301 Concord
HOVP—302 Saratoga
HOVP—303 Ranger
HOVP—304 Minute Man
HOVP—305 Vigilante
HOVP—306 Tilarnook




Green

HOVP—313 Medicine Hat
HOVP—314 Sitting Bull
HOVP—315 Rancho Grande



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# HO Passenger Car Kits

## *Varney Streamline Cars*

These cars are models of the finest passenger equipment in the world . . . taken from the plans of trains like the Pennsylvania's B'way, Limited, Southern Pacific's Daylight and The Royal Blue of the B. & O. Each car is made with a milled round roof and shaped floor, cut to length. The celluloid sides are printed in three colors and lettered. All underframe parts are of wood and cut to size. Stamped metal ladders, dummy couplers, washers and screws for attaching passenger type trucks are included. The kits are printed in 3 color combinations. 1. Orange and Red (Daylight). 2. Blue, dark blue and gray. 3. Tuscan red, maroon, and tan. Specify color combination with order. Prices are quoted without trucks.

BAGGAGE – EXPRESS LENGTH 72'

HOVS—1 Baggage Express

HOVS—2 Baggage Mail

HOVS—3 Combination Baggage & Coach

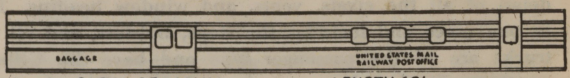
HOVS—4 Coach

HOVS—5 Diner

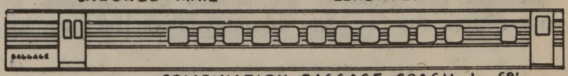
HOVS—6 Pullman

HOVS—7 Pullman

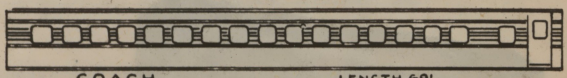
HOVS—8 Observation



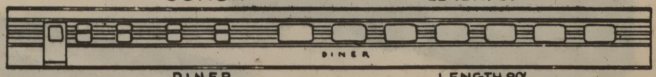

BAGGAGE – MAIL LENGTH 69'



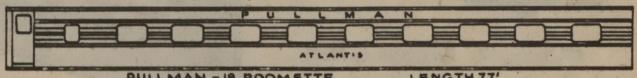

COMBINATION BAGGAGE-COACH L. 69'



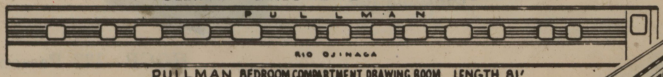
COACH LENGTH 69'




DINER LENGTH 80'




PULLMAN – 18 ROOMETTE LENGTH 77'




PULLMAN BEDROOM, COMPARTMENT, DRAWING ROOM LENGTH 81'

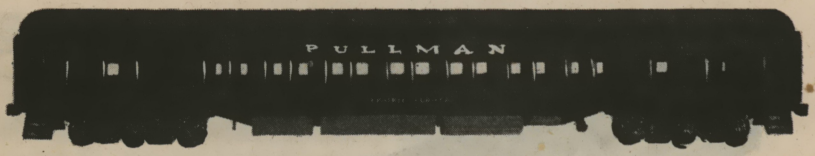
Burlington Route

# HO Passenger Car Kits

## *Varney 14 Section Pullman Car*

This new car is made with wood construction. A roof of the clerestory type milled and cut to length is furnished, also wood floor and ends. The sides are made of embossed cardboard showing rivet detail and window panels. The celluloid is backed by a reenforcing embossed side that gives additional strength to this car. The lettering is in gold. The ventilators, air brake system, steps and dummy couplers are made of tenite. All underframe parts are of wood and are cut to exact size. Varney decals are included in this kit.

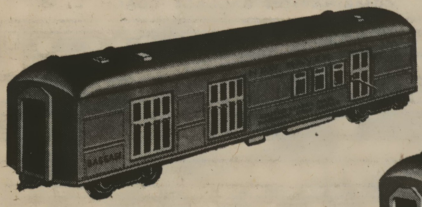
Prices are quoted without trucks.



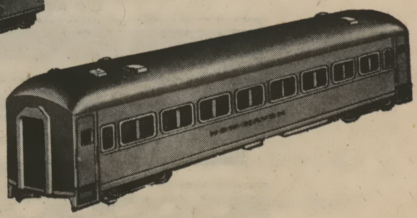

HOVP—300-14 section Pullman

## *A-C. Gilbert Tru-Model Kits*

These Tru-Model cars are all metal die cast cars made from the detailed castings supplied in each kit. The body is cast in one unit and shows the detail of all the rivets, vents, and window beading. The underframe is cast in one piece and includes the steps, bolsters, and all underframe parts. The trucks are of the passenger type and have the Gilbert automatic couplers attached. The windows are backed by celluloid, decals are included and instructions for complete assembly. Paint for each car in every kit.



HOGP—121 Baggage & Mail combination



HOGP—122 Passenger Coach

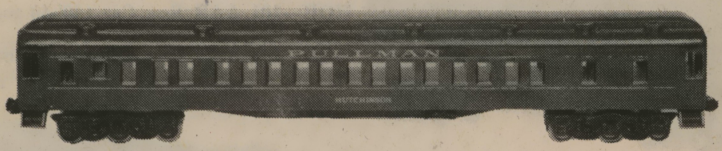


Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1, N. Y.

# HO Passenger Car Kits

## *Laconia Scale Passenger Cars*

**These car kits are scaled from the original drawings of each car. The body is of the wood construction type and consists of a milled shaped wood roof, floor, underframe parts, all cut to the exact size. The detail should be added as shown in the construction plans. The embossed, rivet detail sides are painted and lettered (if specified) with cellophane strips for backing windows and doors. Die cast steps, air brake cylinder and dummy couplers are highly detailed. Screws and washers are included for mounting the Laconia 6-wheel, all metal, two rail trucks of the passenger type. Each car kit is complete with paint and cement and full working drawings.**

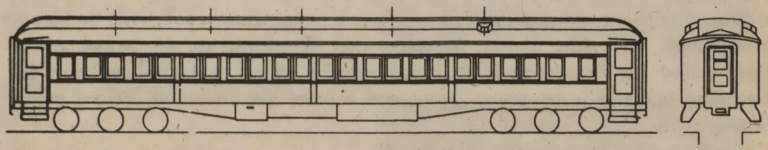



**HOLP—500-12 Section Pullman (80′) "Hutchinson" (green)**

**Embossed metal sides, ends and door bulkheads painted Pullman Green and lettered in gold, with wood supporting parts for frame, complete hardware, plastic windows and trucks.**

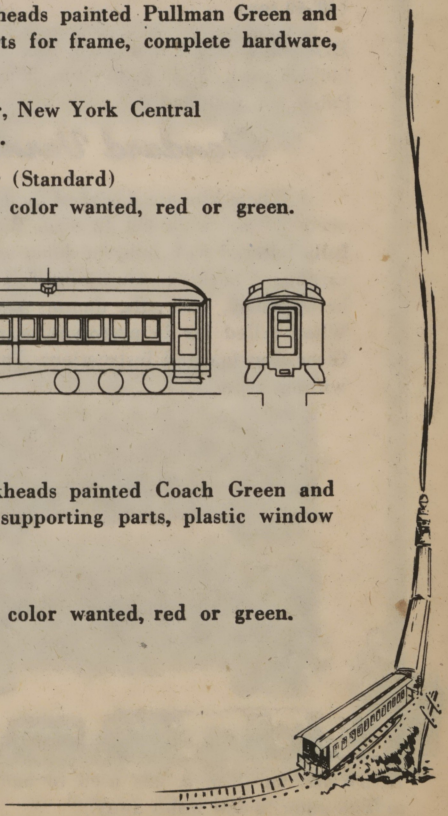
**HOLP—501 Combination Baggage & Smoker, New York Central**
**Sides are painted green and lettered in gold.**

**HOLP—502 Combination Baggage & Smoker (Standard)**
**Sides are painted but not lettered, specify color wanted, red or green.**



**HOLP—503 Coach, Chesapeake and Ohio**
**Embossed metal sides, ends and door bulkheads painted Coach Green and lettered in gold, with all necessary wood supporting parts, plastic window strips, complete hardware and trucks.**

**HOLP—504 Coach (Standard Passenger)**
**Sides are painted but not lettered, specify color wanted, red or green.**



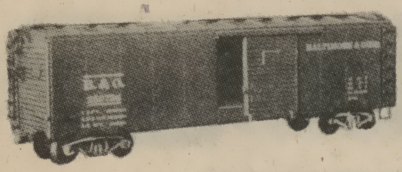
RAIL-ROAD QUIZ

When was the first railroad in the U. S. built and what was it used for?

# HO Freight Car Kits

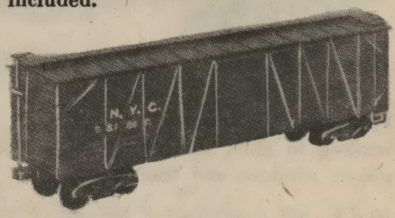
## Polk's Accepted W. K. Walther's Box Car Kits

An excellent kit for those that want to letter their own cars or prefer decals for lettering. Accurate wood body with pine roof, milled to shape, basswood veneer sides and scribed roof walk. Finely detailed die cast ends, doors, underframe, end platforms, air brake cylinder and dummy couplers. Doors open and close on real door slides. Metal stamped ladders, brake wheel, bent wire grab irons and steps. Die formed braces for outside framing of sides and roof are included. Clear drawings and instructions, paint and cement are not included. Prices are quoted with transfers and trucks.



HOB—101 AAR Box Car (40'-40 ton).

HOB—102 AAR Box Car (40'-40 ton). Die cast ends, doors, and paint not included.

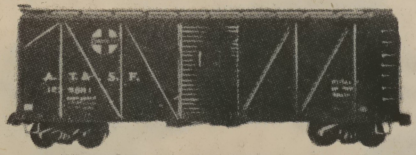


HOB—103 USRA Standard Box Car (40'-40 ton).

HOB—104 USRA Standard Box Car (40'-40 ton). Die cast ends, doors. Paint not included.

## Standard Varney HO Box Car Kits

These kits are designed for ease of assembly. Wood roof, ends, floor and scribed roof walk cut to size. Rivet embossed aluminum foil, colored sides fully lettered with integral doors and door slides ready to be glued to included cardboard backing. Aluminum foil embossed ends, tenite roof walk ends, ajax brake wheel, end sills, dummy couplers and Westinghouse air brake system. When called for in prototype, stamped metal roof or roof ribs are included. Clear drawing and instructions. Paint and cement not included. Prices quoted without trucks.



HOB—106 Embossed brass (no lettering or paint).

Tools: Sharp knife, sandpaper, screwdriver, file, long nose pliers.

ANSWER: In 1826. It was used to haul granite from quarries near Quincy, Mass., to Tidewater, a few miles away.



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.

Where were the first railway dining cars run?

QUIZ RAIL-ROAD

# HO Freight Car Kits

## *Varney Box Car Kits*

Varney all steel cars, embossed and lettered, aluminum foil sides. Prices are quoted without trucks.

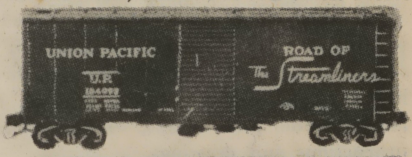
HOB—110 AAR embossed brass (no lettering or paint).

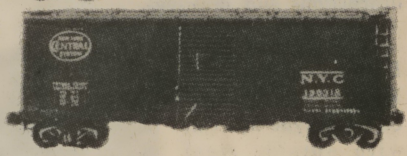
HOB—111 Union Pacific "Route of Streamliners" on one side, "Serves all the West" on the other.

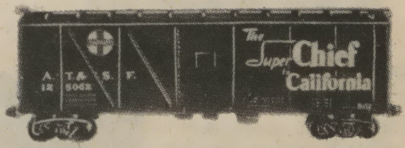
HOB—112 Pennsylvania X31A (round top roof).

HOB—113 New York Central.

HOB—114 Santa Fe 40′ outside braced, embossed and lettered aluminum sides. Prices quoted without trucks.



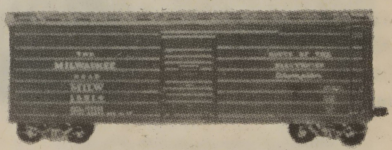

Rivet embossed, colored, cardboard sides, finely detailed. Prices quoted without trucks.

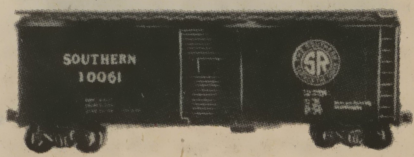
HOB—115 Milwaukee 40′ long panel.

HOB—116 Northern Pacific.

HOB—117 Southern.

HOB—118 Seaboard Air Line (round roof).






Tools: Sharp knife, sandpaper, screwdriver, file, long nose pliers.

ANSWER: The first railway dining cars were run between Philadelphia and Baltimore in 1863.



*The Nation's Leading Hobby House*

RAIL-ROAD QUIZ

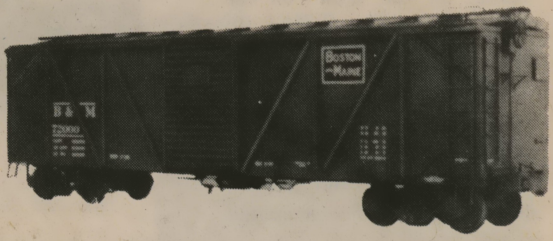
What is "Head-end" traffic?

# HO Freight Car Kits

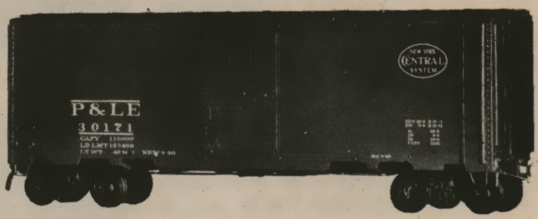
## *Polk's Accepted Laconia Box Car Kits*

A complete kit. Nothing extra to buy. Rivet embossed aluminum foil, super detailed ends, colored and lettered sides with integral doors, supporting wood body cut to size and scribed roof walk. Die cast dummy couplers, end sills, roof walk ends, turned brass air brake cylinder, stamped metal roof and brake wheel, wire formed grab irons, steps and brake staff. Stamped brass ladder, model pins, screws, washers, paint and cement are all included. Clear instructions and drawings.

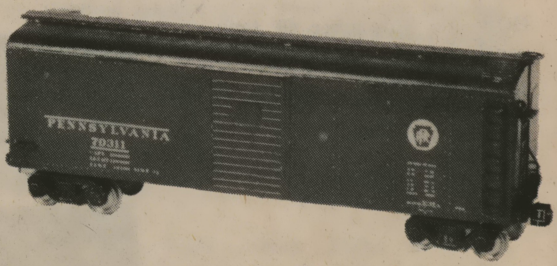
HOB — 119 Boston & Maine, a single sheathed wood type box car, with outside steel braces. This car was built in 1930, is 40'-40 ton.



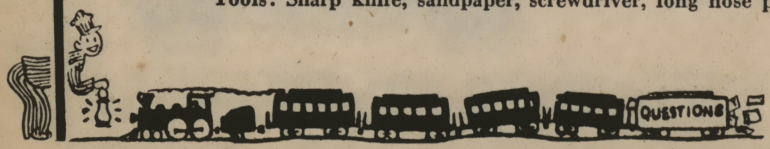

HOB—120 New York Central. An old time (36'-6 in.), steel car with 50-ton capacity, originally built by A. C. & F. Co. in 1912, but has been re-lettered.




HOB — 121 Pennsylvania X31A all steel 40' 6 in. car. It is considerably higher than the average car with capacity over 3,700 cubic feet.




Tools: Sharp knife, sandpaper, screwdriver, long nose pliers, and file.




ANSWER: Mail, express, baggage, newspaper, and milk, transported in cars nearest the locomotive.



*Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.*

What is the world's greatest railroad center?

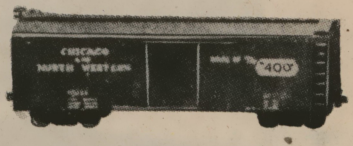
QUIZ RAIL-ROAD

# HO Freight Car Kits

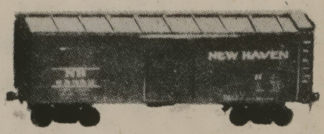
## Polk's Accepted Laconia-Lockhart Box Car Kits

Embossed lettered and colored cardboard sides with wood supporting roof, floors and ends, scribed roof walk, cut to size. Embossed cardboard doors and ends, die cast end sills and dummy couplers, turned metal air-brake cylinder stamped metal ladders and brake wheel, formed wire grab irons and steps. Cardboard brake platform and roof walk ends. Clear drawings and instructions. Glue and paint not included. Prices are quoted without trucks.

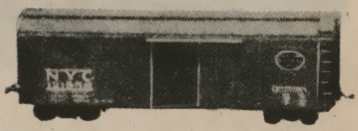
HOB—128 Chicago & North Western 40′ 6″ (Route of the 400).




HOB—129 New Haven. Class XM9, 36′ old style single wood sheathed.



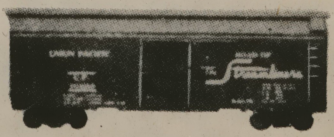

HOB—130 New York Central. 40′ 6″ all steel box. Black and White Herald.




HOB—131 Union Pacific. Class B50-19, 40′ 6″ (Road of the Streamliner).

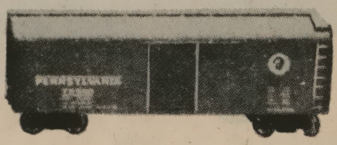
HOB—132 Pennsylvania. Class X31A 40′ 6″ Round Roof.

HOB—133 Northern Pacific. 40′ 6″. Single wood sheathed.



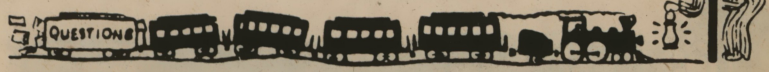

HOB—134 Baltimore & Ohio. Class M53, 40′ 6″ Wagon Top.

HOB—135 C. B. & Q. Class 3, 40′ double wood sheathed. Black & White Herald.




HOB—136 Seaboard Air Line. Class B6 40′ 6″ (Route of the Orange Blossom Special).

Tools: Sharp knife, sand paper, screw driver, file and long nose pliers.




ANSWER: Chicago, Ill., is served by 21 class I railroads and 14 switching and terminal companies.

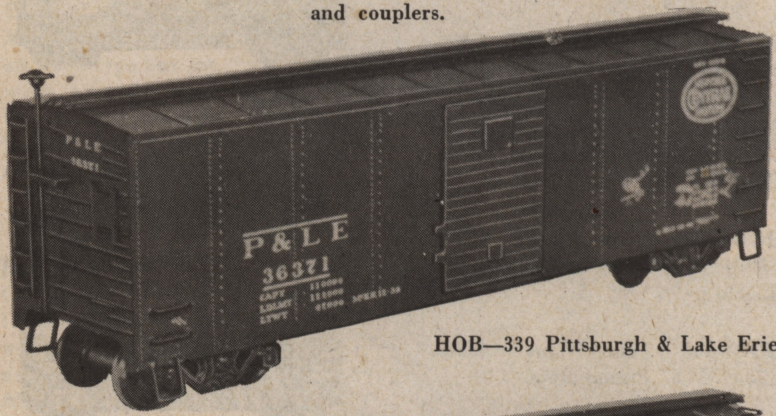
RAIL-ROAD QUIZ

How many time tables are issued by the railroads in one year?

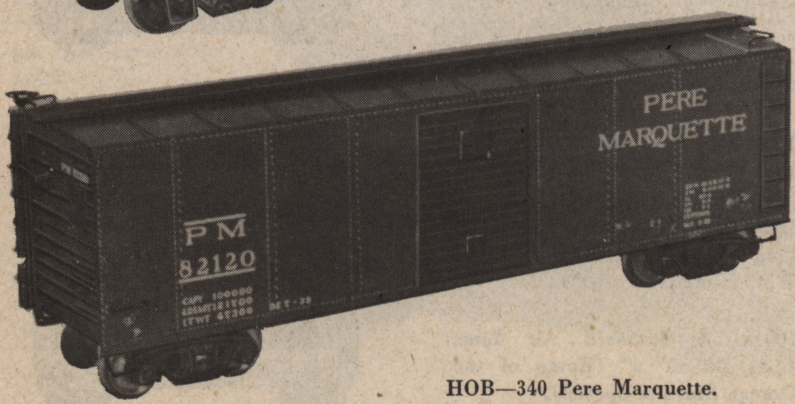
# HO Freight Car Kits

## *Polk's Accepted Ideal Box Car Kits*

IDEAL introduces a new line of different cars. Fine detailed, embossed, colored and lettered cardboard sides, ends, doors and roof walk ends, cut to size wood roof, floor, sides and ends. Die cast Ajax brake wheel and platform with Westinghouse air-brake system and truck bolsters. Stamped metal ladders. Paint, cement included. Prices quoted, without trucks and couplers.




HOB—339 Pittsburgh & Lake Erie.




HOB—340 Pere Marquette.

HOB—341 Bessemer & Lake Erie.

HOB—342 Northampton and Bath.

ANSWER: The railroads issue and distribute 80,000,000 time tables in one year.



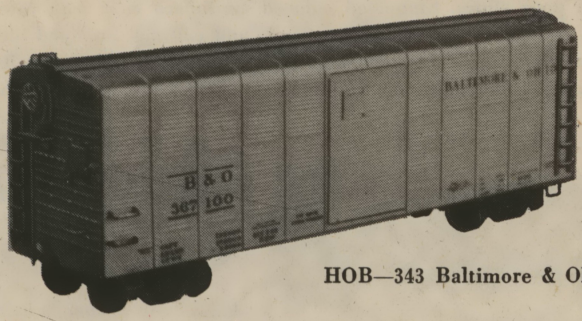
Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.

What part of the railroad dollar is paid out in wages?

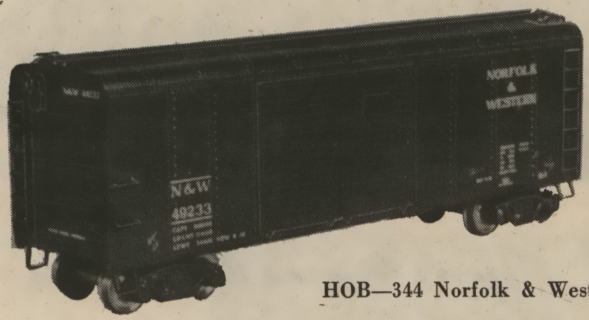
QUIZ RAIL-ROAD

# HO Freight Car Kits

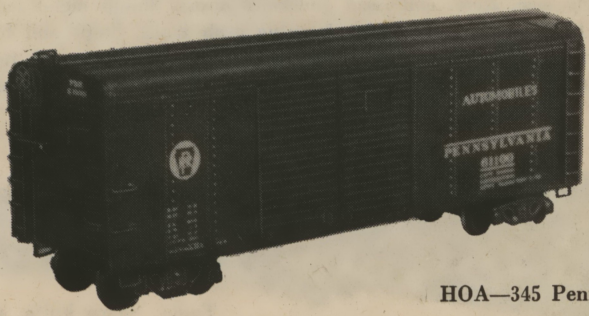
## *Ideal All Steel (round roof) Box Cars*




HOB—343 Baltimore & Ohio (42').

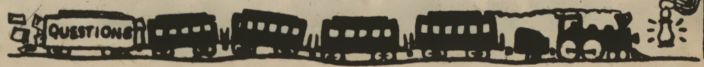



HOB—344 Norfolk & Western (41').




HOA—345 Pennsylvania.

**Tools:** Sharp knife, sandpaper, screw driver, and long nose pliers.




**ANSWER:** 44 1/10 cents of every dollar taken in by the class I railroad in 1939.

RAIL-ROAD QUIZ

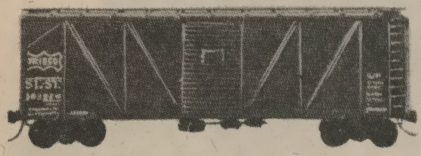
What is the shortest railroad in the United States?

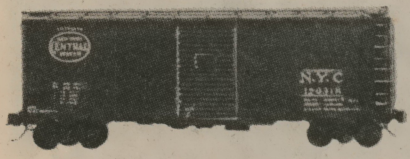
# HO Freight Car Kits

## Varney Mainline Box Car Kits

Embossed colored and lettered cardboard sides and ends with integral doors and door slides. Embossed colored cardboard roof with roof walk and roof walk end platforms. Wood floor ends and ceilings. Stamped metal ladders and brake wheel, wire formed steps and grab irons. Clear drawings and instructions. Glue and paint are not included. Prices are quoted without trucks.

### 40 Foot (outside braced) Kits





HOB—137 Milwaukee Road.

HOB—138 Seaboard Air Line.

HOB—139 Santa Fe (Grand Canyon) AAR all steel box car.

HOB—140 Pennsylvania.

HOB—141 New York Central.

## Megow's Famous Box Car Kits.

Colored and lettered embossed paper sides that glue to supporting wood body cut to size. Rivet embossed ends and doors. Stamp metal ladders, end sills and brake wheels. Wire for forming grab irons. Steps and brake staff, wood turned air-brake cylinder and glue. Clear drawings and instructions. Paint is not included, and prices are quoted without trucks or couplers.

HOB—142 B&O Wagon Top.

HOB—143 Southern Pacific.

Tools: Sharp knife, sandpaper, screwdriver, file, long nose pliers.

ANSWER: The Valley Railroad. 1 mile in length, at Westline, McKean County, Penn. Shortest line-haul in the U. S.



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.

What is the longest railroad in the United States?

QUIZ RAIL-ROAD

# HO Freight Car Kits

## *Standard Varney Automobile Car Kits*

Wood roof, ends, floor and scribed roof walk cut to size. Rivet embossed aluminum foil, colored sides fully lettered with integral doors and door slides ready to be glued to cardboard backing. Aluminum foil embossed ends, tenite roof walk ends, ajax brake wheel, end sills, dummy couplers, and Westinghouse air-brake system. Clear drawings and instructions. Paint and cement not included. Prices are quoted without trucks.

## *AAR 50′ All Steel, double door Auto Cars*

HOA — 144 Embossed brass, without paint or lettering.

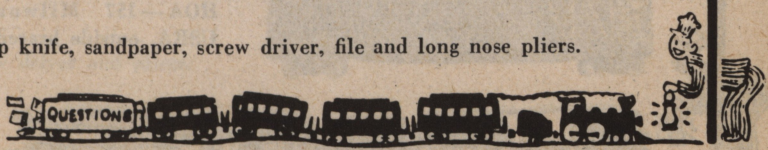
HOA—145 Pennsylvania, round top.

HOA—146 St. Louis Southwestern (Cotton Belt Route).

AAR 50′ all steel, double door car. Rivet embossed colored cardboard sides. Prices quoted without trucks.

HOA—147 Chicago & North Western. (Route of the "400").

Tools: Sharp knife, sandpaper, screw driver, file and long nose pliers.




ANSWER: The New York Central, with 24,983 miles of track.

*Please Order by Both Name and Number*

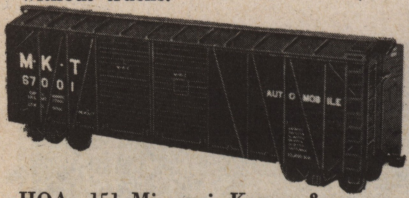
RAIL-ROAD QUIZ

What is the cost of stopping and starting a freight train?

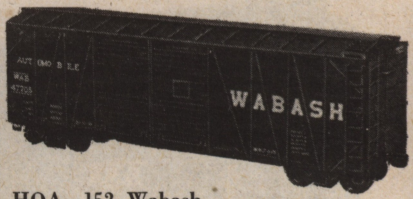
# HO Freight Car Kits

## Comet 40' 6" Automobile Car Kits

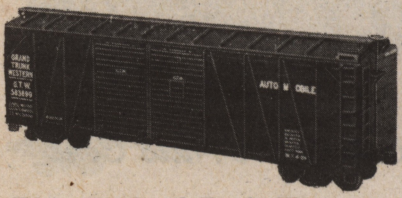
Outside braced, rivet embossed sides and ends. Hardwood milled roof, floor. Roof walk and ends cut to size. Stamped metal ladders and brake wheel, wire formed steps and grab irons, wood turned air-brake cylinder. Step by step drawings and full instructions. Glue and paint are included. Prices quoted without trucks.



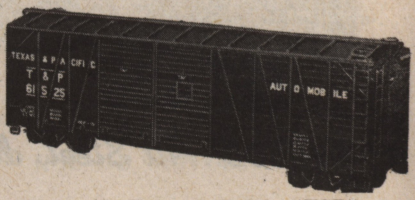

HOA—151 Missouri, Kansas & Texas (MKT).



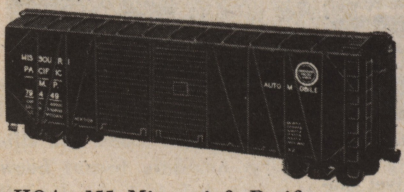

HOA—152 Wabash.




HOA—153 Grand Trunk, Western (GTW).




HOA—154 Texas & Pacific (T&P).




HOA—155 Missouri & Pacific

HOA—156 Chicago & Eastern Ill.

## W.K. Walther's USRA Automobile Kits

Embossed colored and lettered sides, roof ends and doors, balsa body block, die cast underframe, air brake cylinder and dummy couplers, wood roof walk ends, stamped ladders, wire steps and grab irons. Clear drawings and instructions. Glue and paint not included. Prices quoted with trucks.

HOA—157 Milwaukee Road, USRA, outside braced 50' Auto.

ANSWER: The cost ranges from $1.00 to $4.00 depending on the length of the train.



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1, N. Y.

What is a car mile?

QUIZ RAIL-ROAD

# HO Freight Car Kits

## Laconia Lockhart Automobile Car Kit

Embossed lettered and colored sides with wood supporting roof, floor and ends. Scribed roof walk cut to size. Embossed cardboard doors and ends. Die cast end sills and dummy couplers, turned brass air-brake cylinder. Stamped metal ladders and brake wheel. Formed wire grab irons and steps. Cardboard brake platform and roof walk ends. Clear drawings and instructions. Glue and paint not included. Prices quoted without trucks.

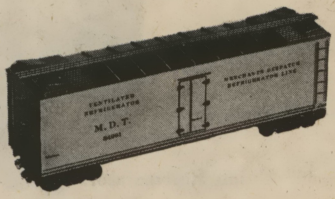
HOA — 150 Virginian. Class AXI 50′ round roof.

## Gilbert's Tru-Model Refrigerator Kits

A complete kit. Die cast body with integral ladders, roof walks, brake platform, roof ribs, ice hatch platforms, doors and grab irons, underframe with integral end sills and steps. No drilling, no tapping, no filing. Gilbert automatic couplers, decalcomanias, paint, and brushes. Prices are quoted without trucks.

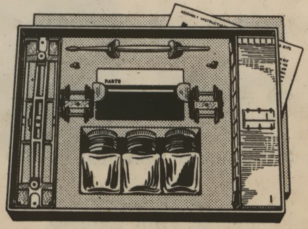
HOR—187 Pacific Fruit Express Kit.

HOR—188 Pacific Fruit Express Car.



HOR—189 Merchants Despatch Kit.

HOR—190 Merchants Despatch Car.



Tools: Serew driver and pliers.

ANSWER: The moving of a car one mile is called a car mile.

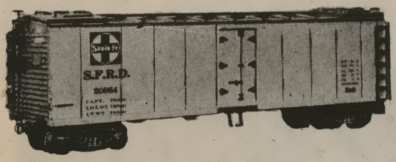
RAIL-ROAD QUIZ

What is the average haul of freight?

# HO Freight Car Kits

## W.K. Walther's Refrigerator Cars

The wood body with milled pine roof, Basswood paneled scribed sides, and scribed roof walk are cut to size. Die cast ends, underframe, air brake cylinder, dummy doors, couplers and ice hatches are finely detailed. Stamped metal ladders, bent wire grab irons and steps are ready to be assembled. Clear drawings and transfers are included. Paint and cement are not included. The prices are quoted without trucks.




HOR—158 AAR all steel 40 ton, 40′ refrigerator.

## W.K. Walther's All Steel Refrigerator Car

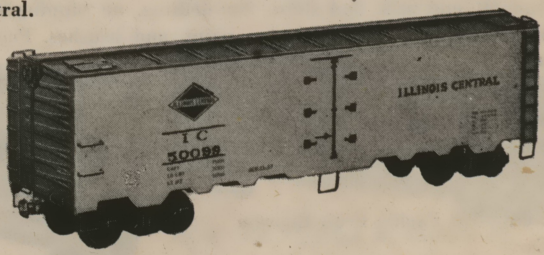
These 40 ton, 40′ cars have embossed, colored and lettered sides, ends. Roof with integral roof ribs. The body is a balsa cut wood block. Die cast underframe, and ice hatches, air brake cylinder and dummy couplers. Stamped metal ladders, formed wire grab irons and steps. Paint and cement are not included. Prices are quoted without trucks.

HOR—159 Illinois Central.

HOR—160 Rock Island.

HOR—161 Burlington.

HOR—162 Santa Fe.




HOR—163 Union Refrigerator.

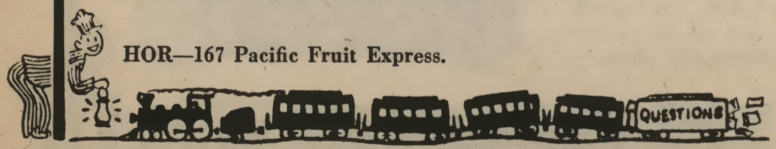
HOR—164 Western Fruit Express.

HOR—165 American Refrigerator Transit.

HOR—166 General American reefer Transit.

HOR—167 Pacific Fruit Express.

Tools: Sharp knife, sandpaper, screw driver, file and long nose pliers.




ANSWER: The "average haul" is the distance which the average ton of revenue freight is carried by the railroad.



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.

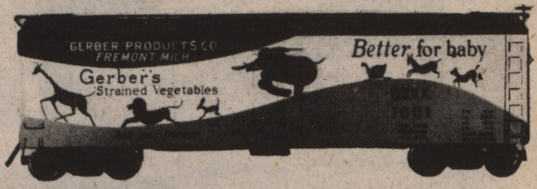
What is an L.C.L. shipment?

QUIZ RAIL-ROAD

# HO Freight Car Kits

## *Mantua Refrigerator Car Kits*

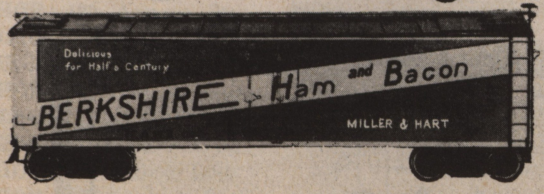
**POLK'S accepted Mantua car kits are ready to assemble as they come out of the package. No cutting, filing, drilling, tapping or soldering. The cars cannot warp and will not become "unstuck." Embossed cardboard sides that are specially treated with true color. Body is of stamped metal. Sides, floor and roof are embossed. Die cast roof walk, ice hatches, ends, underframe, and Westinghouse air-brake system. Wire formed grab irons and stamped metal steps. Mantua famous automatic couplers, stamped metal brake wheel mounted on brake staff with brake platform. Glue and paint are not included. Prices are quoted with trucks.**




**HOR — 168 Gerbers Food Products.**

**HOR — 169 Rath's Black Hawk Ham.**

**HOR—170 Baby Ruth.**




**HOR—171 Berkshire Ham.**

**Tools: Screw driver, file and long nose pliers.**

**ANSWER: Any shipment of freight too small to move on a carload rate. L.C.L. ("Less than Carload").**

*Please Order by Both Name and Number*

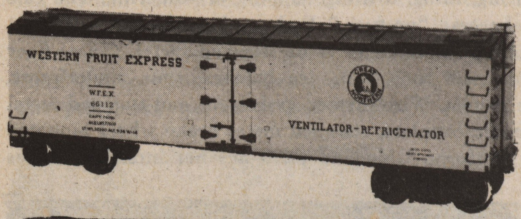
RAIL-ROAD QUIZ

What is the cubic capacity of a box car?

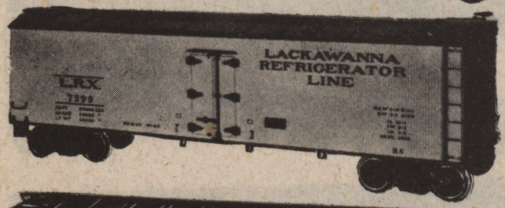
# HO Freight Car Kits

## *Mantua Refrigerator Car Kits*

NO CUTTING, FILING, DRILLING, TAPPING OR SOLDERING

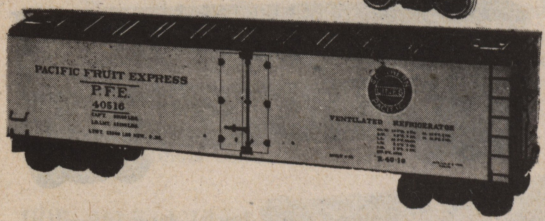



HOR—172 Western Fruit Express.



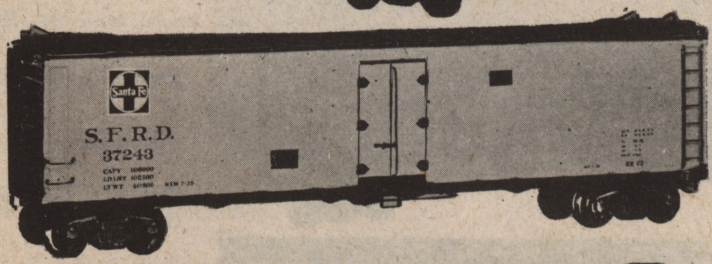

HOR—173 Lackawanna.

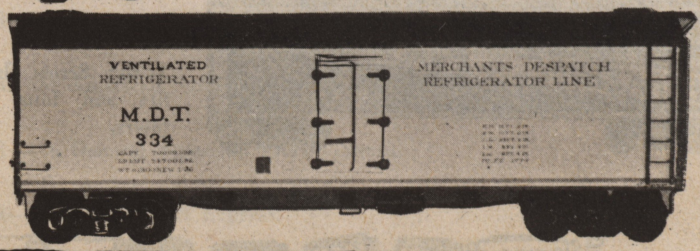
HOR—174 Pacific Fruit Express.

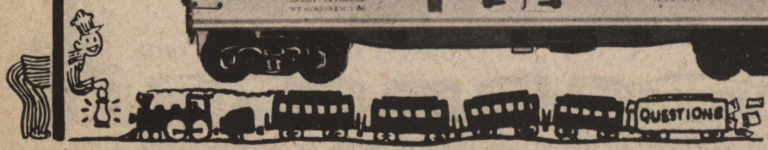



HOR—175 Santa Fe.

HOR—176 Merchants Despatch Transfer.




ANSWER: The average box car's cubic capacity is 3,102 cubic ft.



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1, N. Y.

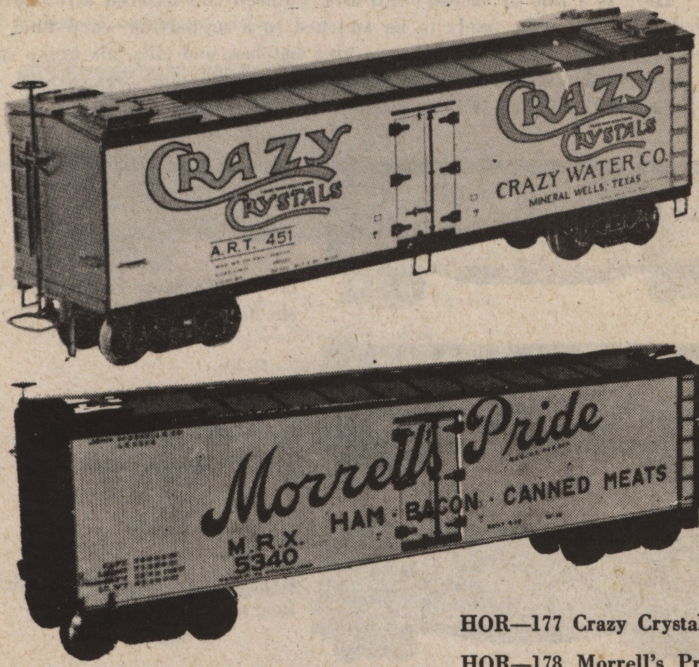
How much labor goes into the building of a box car?

QUIZ RAIL-ROAD

# HO Freight Car Kits

## *Mantua Refrigerator Car Kits*

NO CUTTING, FILING, DRILLING, TAPPING OR SOLDERING

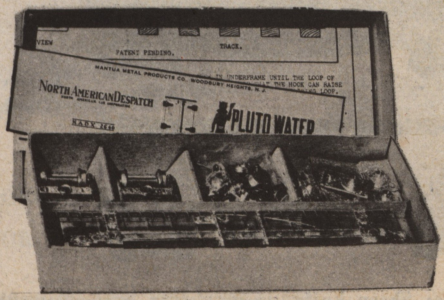



HOR—177 Crazy Crystals.

HOR—178 Morrell's Pride.

## *Other Mantua Kits Not Illustrated*

HOR—179 Swifts.
HOR—180 Armour Star Lard.
HOR—181 Pluto Water.
HOR—182 Fruit Growers Express.
HOR—183 Land-O-Lakes.
HOR—184 College Inn.
HOR—185 Borden's Fine Cheese.



ANSWER: The average box car takes 2,000 man hours of work to build.

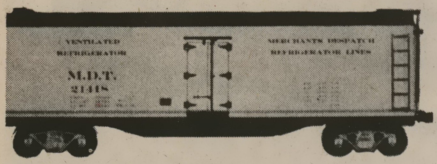
RAIL-ROAD QUIZ

What is meant by "Freight Classification"?

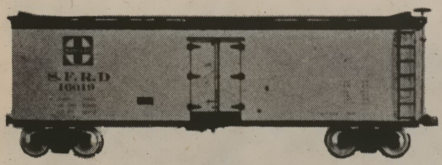
# HO Freight Car Kits

## *Varney Standard Refrigerator Cars*

Here is a line of easy-to-build kits. Colored and lettered cardboard embossed sides and ends, ready to be attached to a supporting wood body with wood roof, floor and ends. Tenite working hatches, end sills, air brake system and dummy couplers. Stamped metal ladder, roof ribs and brake wheel. Glue and paint not included. Prices quoted without trucks.




HOR—191 Merchants Despatch.

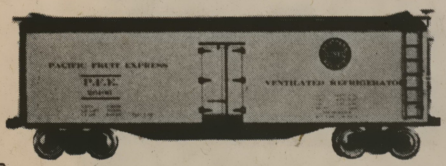



HOR—192 Santa Fe (Double wood sheathed).

HOR—193 Fruit Growers Express (Double wood sheathed).

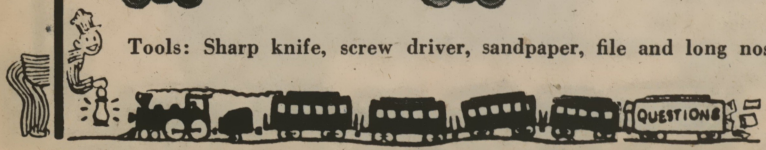
HOR—194 Blatz (Old Heidelberg Beer).

HOR—195 Black Hawk Ham.




HOR—196 Pacific Fruit Express (Double wood sheathed).

Tools: Sharp knife, screw driver, sandpaper, file and long nose pliers.




ANSWER: Several groupings of articles are called classifications.



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1, N. Y.

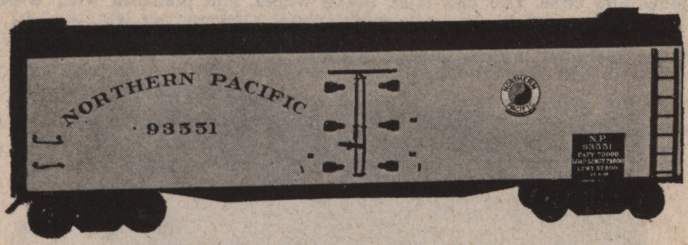
What is the "White House" on wheels?

QUIZ RAIL-ROAD

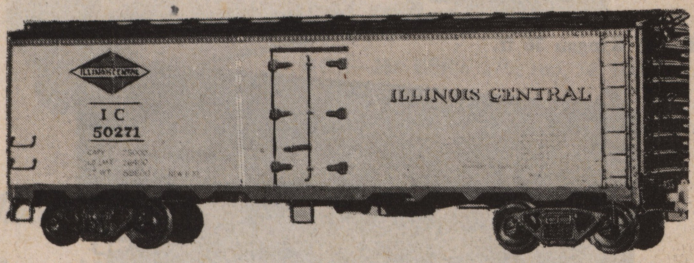
# HO Freight Car Kits

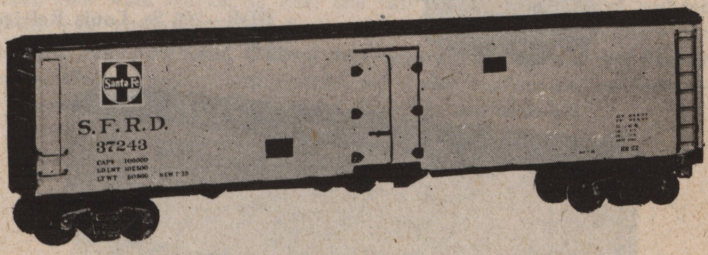
## *Varney Standard Refrigerator Cars*

**For "42" five new refrigerator cars with finely detailed colored and lettered embossed cardboard sides.**




**HOR—198 Northern Pacific.**
**HOR—199 Milwaukee.**
**HOR—200 Illinois Central.**

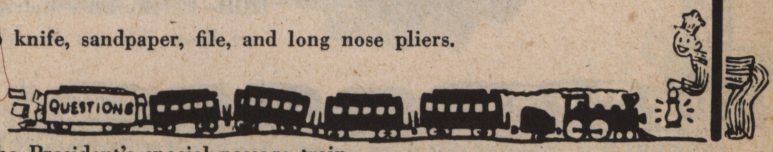



**HOR—201 Santa Fe (All Steel).**

**HOR—202 Pacific Fruit Express (All Steel).**

**Tools: Sharp knife, sandpaper, file, and long nose pliers.**




**ANSWER: The President's special passage train.**

*Please Order by Both Name and Number*

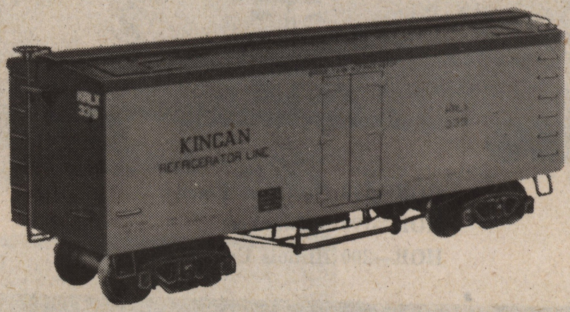
RAIL-ROAD QUIZ

How many railroad bondholders are there?

# HO Freight Car Kits

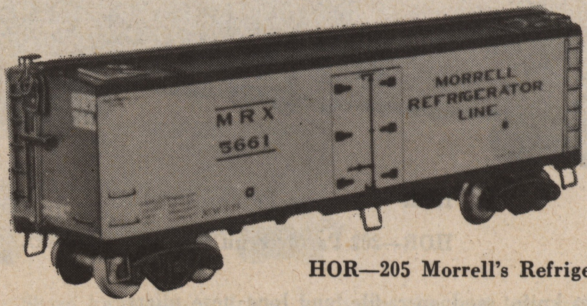
## *Ideal Refrigerator Car Kits*

IDEAL'S new line of HO refrigerator car kits. Embossed, colored and lettered cardboard sides, end, door, and ice hatches; cut to size, wood roof floor, sides and ends. Die cast Ajax brake wheel, and platform with Westinghouse air-brake system and trucks. Bolsters, stamped metal ladders. Paint and cement are included. Prices quoted, without trucks and couplers.




HOR—203 Kingan 36 ft.

HOR—204 St. Louis Refrigerator Car Co. 36 ft.




HOR—205 Morrell's Refrigerator 41 ft.

ANSWER: It is estimated that there are approximately 1,000,000 railway bondholders in the U. S.



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1, N. Y.

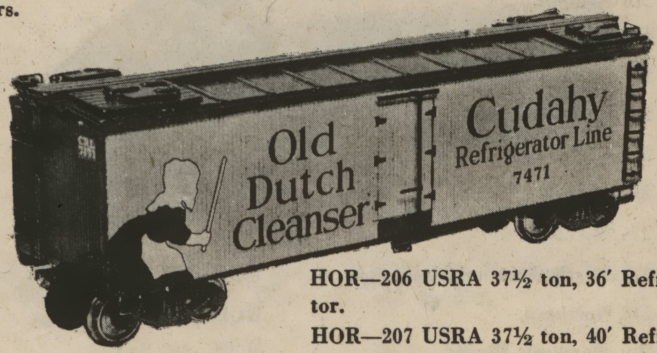
What is the average investment per mile of railway?

QUIZ RAIL-ROAD

# HO Freight Car Kits

## W. K. Walther's Refrigerator Car Kits

These USRA reefer car kits present a large assortment of colorful cars. They are designed for authentic full color decalcomanias. The car is a 37½ ton 36′ foot car and is especially intended for use with Cudahy, Wilson, Westcott & Winks and Nuchol's lettering. All wood body cut to size, die cast doors, underframe, ice hatches, air brake cylinder and dummy couplers. Metal stamped ladders, bent wire grab irons and steps. Clear drawings and instructions. Paint and cement are not included. Prices are quoted with trucks and transfers.

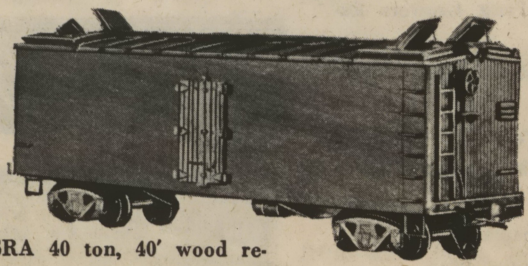



HOR—206 USRA 37½ ton, 36′ Refrigerator.

HOR—207 USRA 37½ ton, 40′ Refrigerator.

## The K.&W. Shop Refrigerator Car Kits

The wood body with milled pine roof, vertically scribed, basswood sides and scribed roof walk are cut to size. Die cast ends, dummy doors, and ice hatches, die cast underframe, air brake cylinder and dummy couplers are finely detailed. Stamped metal ladders, bent wire grab irons, and steps ready to assemble. Clear drawings and instructions. Paint and cement are not included. Prices are quoted without trucks. Transfers are included.



HOR—208 USRA 40 ton, 40′ wood refrigerator.

ANSWER: The average mile of railroad represents an investment of $108,871.

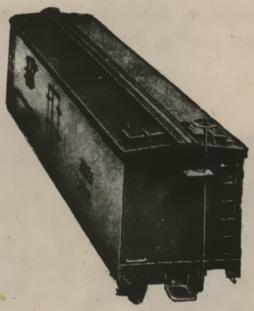
RAIL-ROAD QUIZ

What is the leading freight commodity?

# HO Freight Car Kits

## Megow's Famous Refrigerator Car Kits

Colored and lettered embossed paper sides that glue to supporting wood body, cut to size. Rivet embossed ends and doors. Stamp metal ladders, end sills and brake wheels. Wire for forming grab irons. Steps and brake staff, wood turned air-brake cylinder and glue. Clear drawings and instructions. Paint is not included, and prices are quoted without trucks or couplers.



HOR—209 American Transit

HOR—210 Armour.

HOR—211 Fruit Growers Express.

HOR—212 Hunter Packing Co.

HOR—213 Kahn's Sons.

HOR—214 Krey Packing Co.

HOR—215 Missouri, Kansas & Texas.

HOR—216 M.U.N.X.

HOR—217 North American Despatch.

HOR—218 Northern.

HOR—219 Northern Pacific.

HOR—220 Western Fruit Express.

HOR—221 Pacific Fruit Express.

HOR—222 Santa Fe.

HOR—223 Swift.

HOR—224 Union Ref. Transit.

## Varney Mainline Refrigerator Car Kits

Embossed colored and lettered cardboard sides and ends with integral doors. Embossed, colored cardboard, roof, roof walk and ice hatches. Wood floor, ends and ceiling. Stamped metal ladders and brake wheel, wire formed steps and grab irons. Clear drawings and instructions, glue and paint are not included. Prices are quoted without trucks.

HOR—229 Fruit Growers Express.

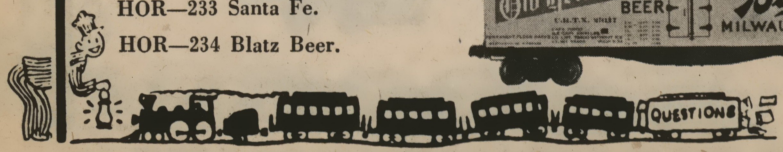
HOR—230 Rath's Black Hawk Ham.

HOR—231 Pacific Fruit Express.

HOR—232 Merchants Dispatch Transfer.

HOR—233 Santa Fe.

HOR—234 Blatz Beer.




ANSWER: Bituminous coal ranks first in leading freight commodity.



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1, N. Y.

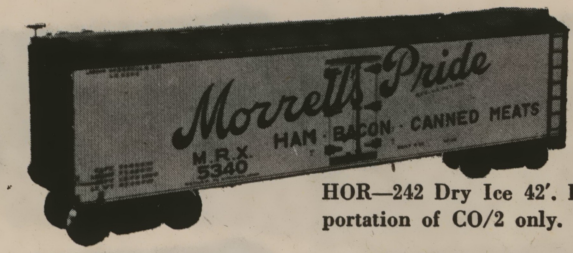
What constitutes a freight train crew?

QUIZ RAIL-ROAD

# HO Freight Car Kits

## *Laconia-Lockhart Refrigerator Kits*

Here is a chance to own a string of "freezers" at a low cost. These kits are very complete in detail with embossed, lettered and colored cardboard sides. The wood supporting roof, floor, ends, scribed roof walk are cut to size. Embossed ends, die cast end sills, dummy couplers, turned wood air-brake cylinder, stamped metal ladders and brake wheel, formed wire grab irons and steps, cardboard ice hatches. Clear drawings and instructions. Paint and glue are not included. Prices are quoted without trucks.




HOR—234-a Morrell's Pride 42'. Ham or Bacon Canned Meats.

HOR—235 Burlington 42'. The C. B. & Q.

HOR—236 Armour's Quality Products 36'. 'Veribest' canned meats.

HOR—237 Borden's Fine Cheese "42' Flashy."

HOR—238 Lackawanna 42' "Where do you worka John."

HOR—239 North American Despatch 48' "Frigicar."

HOR—240 Swift Premium Ham 36' old style lettering.

HOR—241 General American. Minneapolis & St. Louis Heralds.

HOR—242 Dry Ice 42'. For transportation of CO/2 only.

HOR—243 Northern Pacific 42'. An old standby.

HOR—244 National Car Co. 36'. Brine tank reefer.

HOR—245 Fruit Growers Express 42'. Double deck ventilator.

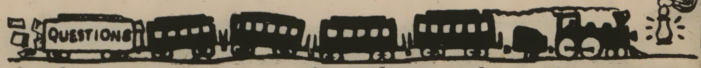
HOR—246 Borden's Produce 42'. Butter, eggs, cheese and poultry.

HOR—247 Kahn's 36'. Pressed Beef.

HOR—248 Farmers Co-operative 42'. Unique "Pelican" brand butter.

HOR—249 Baby Ruth 42'. Our Candy car. Red and Yellow.

HOR—250 Kingan, 36'. "Reliable Hams."




ANSWER: A freight train crew consists of: conductor, a locomotive engineer, a fireman, and one or two brakemen or flagman.

*Please Order by Both Name and Number*

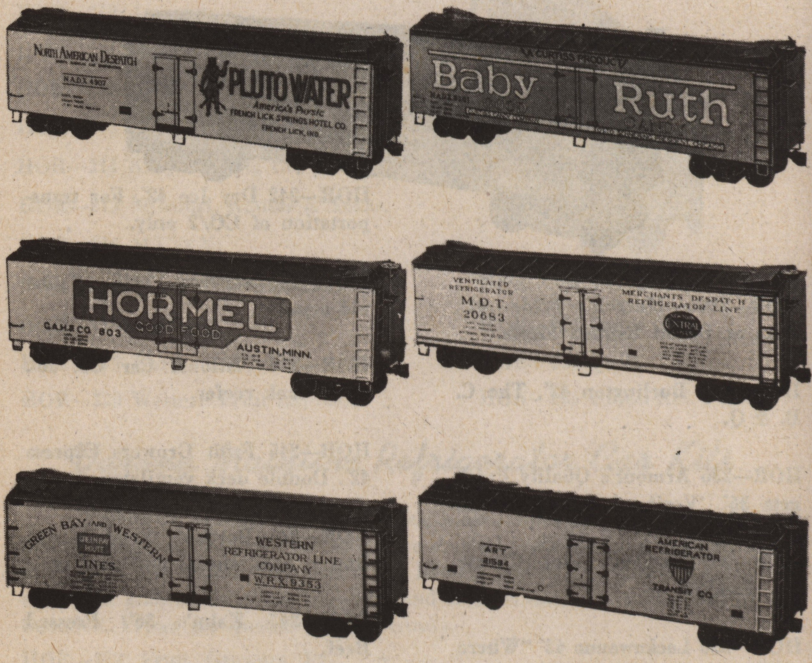
RAIL-ROAD QUIZ

What is the average age of railroad employees?

# HO Freight Car Kits

## *Comet Refrigerator Car Kits*

**A surprisingly complete kit. Rivet embossed cardboard colored and lettered sides, embossed ends, ice hatch platforms. Wood type working ice hatches, stamped metal ladders and brake wheel, wire formed steps and grab irons. Woodturned air brake cylinder. Step by step drawings, and full instructions. Paint and glue are not included. Prices are quoted without trucks.**




**HOR—251 Pluto Water 40′. 40 ton.**

**HOR—252 Baby Ruth 40′. 40 ton.**

**HOR—253 Hormel Foods 40′. 40 ton.**

**HOR—254 M.D.T. 40′. 35 ton.**

**HOR—255 Green Bay 40′. 40 ton.**

**HOR—256 A.R.T. 40′. 38 ton.**

**Tools: Sharp knife, sandpaper, screwdriver, file, and long nose pliers.**

**ANSWER: The average age in 1942 was 42 years.**



*Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.*

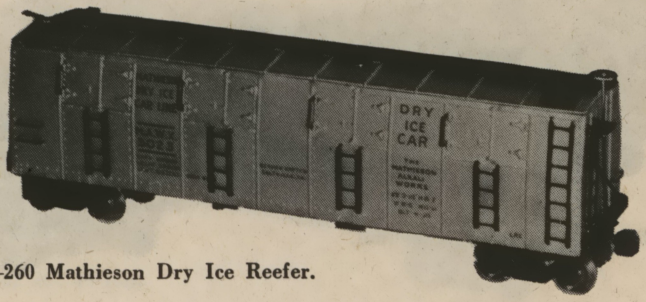
What is a common measurement of railway freight service?

QUIZ RAIL-ROAD

# HO Freight Car Kits

## *Laconia Dry Ice Refrigerator Car*

Another car with a striking appearance. A companion car to the C-V Reefer. Laminated and embossed foil sides and ends highly detailed and lettered. Wood roof, floor, sides and ends, scribed roof walk are cut to the exact size. Stamped metal ladders, brake wheel and wire for brake wheel staff and grab irons. Die cast ice hatches, end sills, and couplers. Turned brass air brake cylinder. Complete in every detail including plans, paint, cement and trucks.




HOXR—260 Mathieson Dry Ice Reefer.

## *Laconia Milk Express Refrigerator Car*

A car that has been named "The HO Beauty Queen". The sides and ends are silver and the lettering is black and green. All the detail is there. Wood sides and ends cut to size for mounting. Roof, floor and scribed roof walk is cut to scale. Couplers, end sills, ice hatches are die cast. Stamped metal ladders and brake wheel. Turned brass air brake cylinder and wire for grab irons is included. Trucks, paint and cement with complete plans for assembly make this a complete and unique kit.

HOXR—261 Central of Vermont (milk reefer).

ANSWER: The ton-mile, the transportation of one ton of freight one mile.

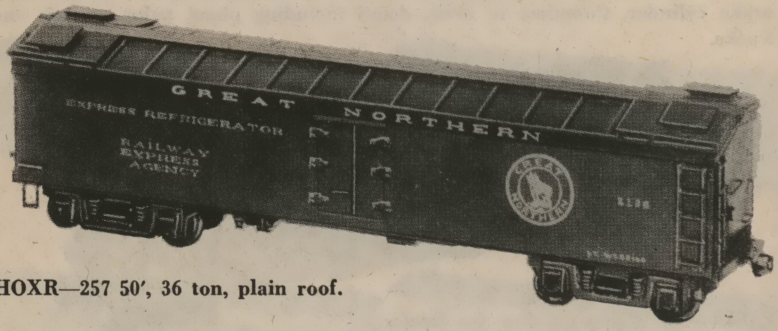
RAIL-ROAD QUIZ

What percentage of all railway employees are represented by labor unions?

# HO Freight Car Kits

## W.K. Walther's Express Refrigerator Cars

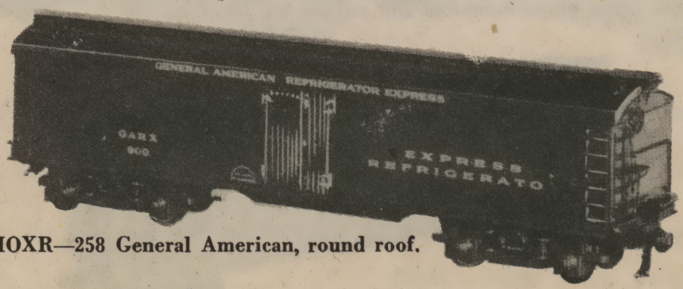
Polk's accepted Walthers' new refrigerators with all wood body, floor, scribed sides and ends. Die cast equipment includes, ice hatches, doors, end sills, triple valve, air brake cylinder and dummy couplers. Wire formed steps and grab irons, stamped metal ladders accurately die punched. An express reefer brake wheel and platform with chain is included. Every detail described and given in the plans for assembly. Paint and cement are not included. A large assortment of decals for your own road name.




HOXR—257 50′, 36 ton, plain roof.

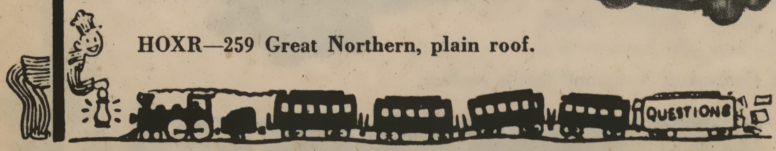
## Varney Standard Express Refrigerators

These are new cars recently added with detailed equipment to add realism to the varnish. These new cars have embossed and colored cardboard sides and ends. Wood supporting body and scribed roof walk are cut to the exact size. Varney tenite working ice hatches and Westinghouse air brake system and dummy couplers are made of tenite. Stamped metal ladders, brake wheel, end sills, and wire formed steps and grab irons. Paint and cement are not included. Prices are quoted without trucks.




HOXR—258 General American, round roof.

HOXR—259 Great Northern, plain roof.




ANSWER: It is estimated that approximately 85% or 90% of all railway employees are represented by labor unions.



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.

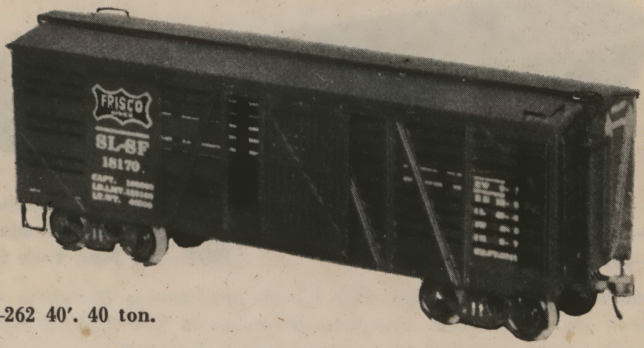
What is an interchange point?

QUIZ RAIL-ROAD

# HO Freight Car Kits

## *Walther's HO Stock Car Kit*

A DeLuxe stock car kit of the U.S.R.A. design. Die cast sides with sliding doors, cast ends are the main features. Wood roof and floor give the slatted sides additional support. All hardware is finely detailed and included. A complete set of instructions showing easy method of assembly and the wide variety of decals available make this kit a real addition to your railroad rolling stock. Trucks are included.

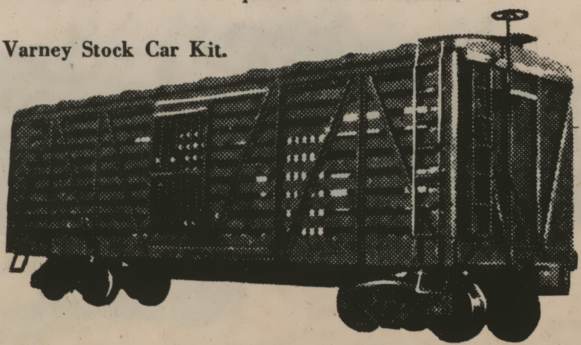



HOS—262 40'. 40 ton.

## *Varney Cattle Car Kit*

The Varney stock car has open work sides of Tenite moulded in one piece. The construction is most simple and the finished car is one of those detailed models which fires the imagination. It will easily hold a load of scale cattle. The car has a wood floor, roof and scribed roof walk. The air brake system is made of Tenite. The dummy couplers, end sills, and roof walk end platforms are die cast. Prices are quoted without trucks.

HOC—263 Varney Stock Car Kit.



ANSWER: Any junction point where freight or passenger cars are transferred from one railroad to another is an interchange point.

*Please Order by Both Name and Number*

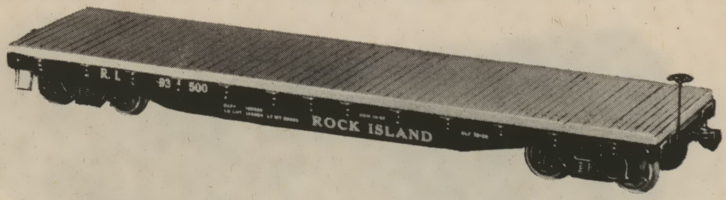
RAIL-ROAD QUIZ

How many federal government employees are assigned to Railway Mail Service?

# HO Freight Car Kits

## Walther's Flat Car Kit 40' 40 Ton

A DeLuxe "Fishbelly" type flat car. Die cast sides and ends interlocking at the corners making assembly easy. The wood floor is scored and cut to size. Complete hardware equipment, detailed and ready for assembly as instructions specify. Trucks and decals of your favorite road are included. Kit is complete —less paint.

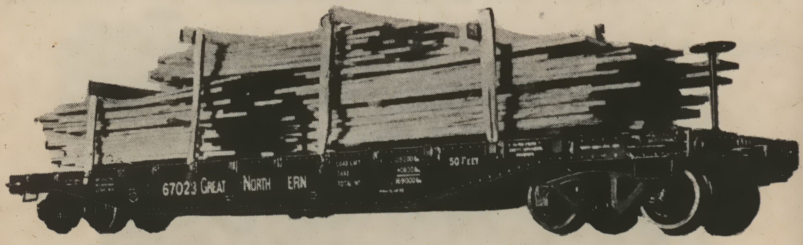



HOF—267 A T & S F.
HOF—268 Southern.
HOF—269 Any decal of your choice.

HOF—264 Rock Island.
HOF—265 Pennsylvania.
HOF—266 New York Central.

## Varney 50' Flat Car

Accurately embossed metal foil floor with highly detailed planks and rivets. Wood base for floor. Complete instructions for assembly. Die cast couplers, Westinghouse air brake system, stamped metal brake wheel and wire for forming grab irons are included. The sides are finely lettered and the end sills scored for cutting.




HOF—270 L & N, red.

HOF—271 Great Northern, black.

ANSWER: The personnel of the Railway Mail Service on June 30, 1939, consisted of 19,964 officers and employees, of whom 18,911 were postal clerks.



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.

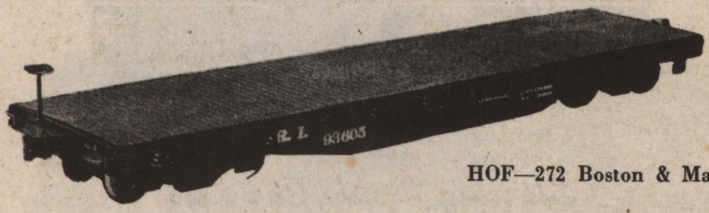
What is the cost of air-conditioning a passenger-train car?

QUIZ RAIL-ROAD

# HO Freight Car Kits

## *Laconia Flat Car Kit*

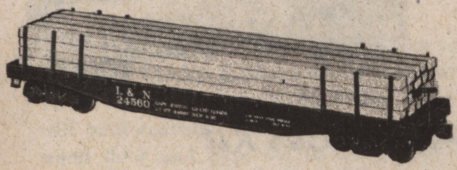
A complete kit with rivet detailed, embossed and printed sides and ends. Wood parts are shaped and cut to the exact dimensions, with special construction method for additional strength. Detailed die cast end sills and couplers. Stamped metal ladders and brake wheel with wire for brake wheel staff. Wire formed grab irons. Paint, cement and trucks are included.




HOF—272 Boston & Maine.

## *Comet Flat Car Kit*

A hardwood construction car kit with richly colored and lettered, detailed and finished sides of embossed cardboard. Stakes and stake pockets to hold the loads are included. A stamped metal brake wheel, embossed planked cardboard flooring and all wood parts are cut to exact size and dimensions. Complete plans for assembly and loadings are included. Each car has a load.




HOF—273 Louisville & Nashville.
HOF—274 Chicago & Northwestern.
HOF—275 Milwaukee road.

## *A-C Gilbert Flat Car Kit*

This is a detailed scale Gilbert car with die cast body in one unit. All the detail of a real car is shown. A load of three extra trucks with wheels is included. The underframe and air brake cylinder are cast to the body and the trucks can be mounted to the bolsters with screws. This car is very easy to assemble and the Gilbert automatic couplers and tenite wheel trucks make this a complete kit with paint and decals. An additional assortment of decals may be used.

HOF—276 Illinois Central, black, white lettering.
HOF—277 Kit with your choice of decals (specify).

ANSWER: Average costs of air-conditioning systems, installed, range from $4,000 to $8,500, depending upon type of installation and other factors.

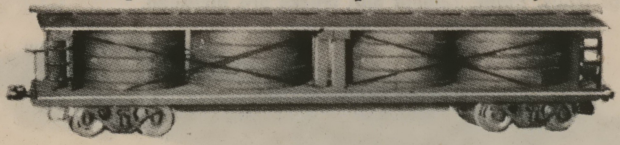
RAIL-ROAD QUIZ

When were all steel passenger cars introduced?

# HO Freight Car Kits

## Sterling Pickle Car Kits

A unique and realistic car kit. Round wooden tanks are covered with printed wrappers showing detail of planks. Wood roof, floor, scribed roof walk and end braces are cut to scale. Wire for strapping tanks and forming grab irons. Die cast ladders, end sills, air brake cylinder. Paint and cement are included. Complete instructions and plans for assembly.

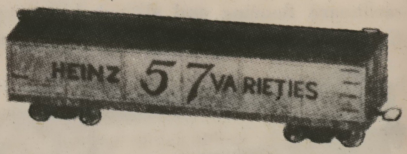


HOP—278 Sterling Pickle Tank car.

## Sterling Pickle Car Kits

Metal roof with embossed ice hatches and car ends add distinction to this kit. Wood roof, solid body, underframe and scribed roof walk are cut to size and milled to shape. Printed sides in three colors showing all detail on embossed cardboard add color to your layout. Die cast air brake cylinder and wire for grab irons are included. Paint and complete plans with instructions are included.

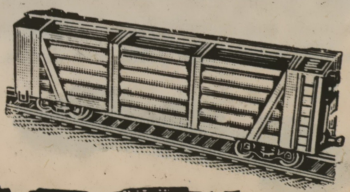
HOP—279 Sterling Pickle car.

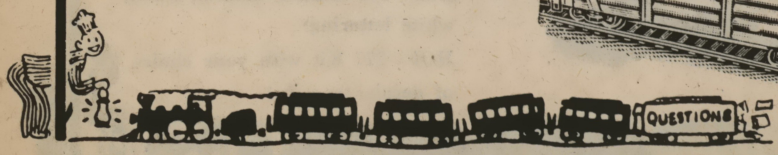



## Sterling Helium Car Kit

This unusual car adds color to any model railroad. The long tubes that are used to transport Helium are made of wood dowels and are cut to length and ready to be painted. All other wood parts that are used as supports are included as is the floor, ends and scribed roof walk. The ladders are die cast. The end sills, air brake cylinder, and Ajax type brake wheel are die cast. Paint and complete assembly instructions are included to build this colorful and unique car in several hours.

HOSH—280 Sterling, Helium car.






ANSWER: The first all steel baggage car was introduced in 1904; the first all steel express car in 1905; the first all steel postal car in 1905.



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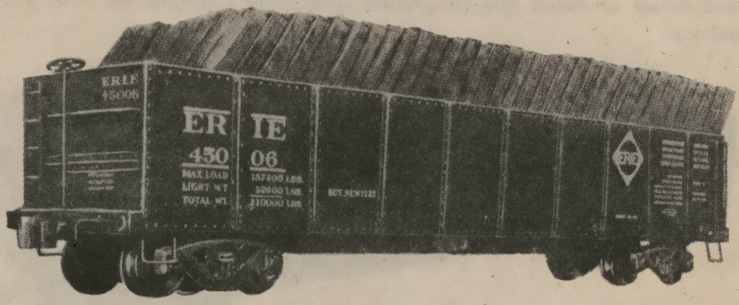
When was steam heat introduced in passenger trains?

QUIZ RAIL-ROAD

# HO Freight Car Kits

## *Varney Standard Gondola Car*

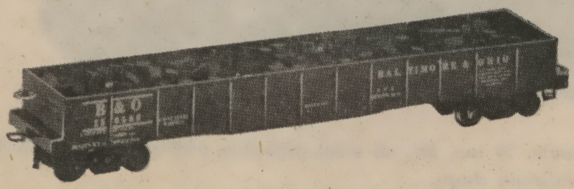
Varney "load your own" gondolas. Finely rivet embossed, lettered and colored aluminum sides and ends. The sides and ends interlock for additional support. Stamped metal ladders and brake wheel, tenite couplers and a Westinghouse air brake system. Wire formed steps and grab irons with clear plans and instructions. Prices are quoted without trucks.



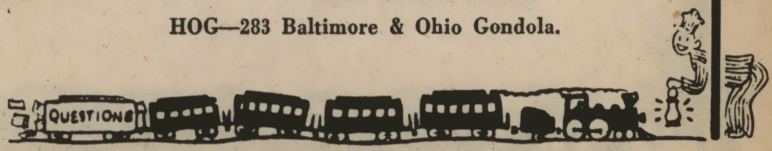

HOG—281 Denver & Rio Grande, Western (black).
HOG—282 Erie railroad, detailed in black.

## *Megow Gondola Car Kit*

This model is one of the easiest to build and is recommended for the beginner. The kit includes everything that is needed to build the model shown. The length of the car is 6⅜" over the end sills. Because of its large size it will haul realistic loads. The body is of the wood construction type with the wood floor and ends cut to the proper size. Stamped metal end sills, brake wheel and couplers are included. The air brake cylinder is made of turned wood. Complete plans and instructions and paint add to the ease of making this model. Prices are quoted without trucks.




HOG—283 Baltimore & Ohio Gondola.




ANSWER: Steam heated passenger cars, doing away with stoves or hot water heaters, were introduced in 1881.

*Please Order by Both Name and Number*

RAIL-ROAD QUIZ

What is a Catenary?

# HO Freight Car Kits

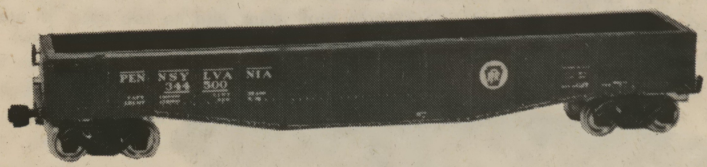
## W.K. Walther's Gondola Car Kit

A deluxe 50', 50 ton outside braced gondola car. The body is die cast and the sides and ends interlock at the corners. This is an easy assembly method and provides additional strength. A wood floor is cut to size and length. Die cast air brake cylinder, dummy couplers, wire formed brake lever, formed steps and wire for grab irons. The kit is complete with trucks and decals as listed below or decals may be chosen from those listed in the back of the catalogue.

HOG—284 Chicago & North Western.
HOG—285 New York Central.
HOG—286 With decals of your choice.

## Laconia Mill Type Gondola

The sides and ends of this car are made of aluminum foil, lettered, colored, and embossed to show the detail of the rivets. The dummy couplers and end sills are made of die cast metal and highly detailed. A metal turned air brake cylinder, stamped metal brake wheel, wire formed steps and grab irons are all included. Paint and cement enclosed with each kit.




HOG—287 Pennsylvania, 70 ton, 52', all steel, G27-class 344000 series. Built in Altoona railroad shops.

ANSWER: A catenary is the overhead structure, consisting of cross and longitudinal wires and cables, which holds the electrically charged trolley wire in place.



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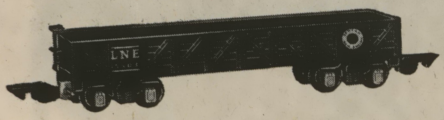
How much labor goes into the construction of a steam locomotive?

QUIZ RAIL-ROAD

# HO Freight Car Kits

## A-C Gilbert Gondola Car Kits

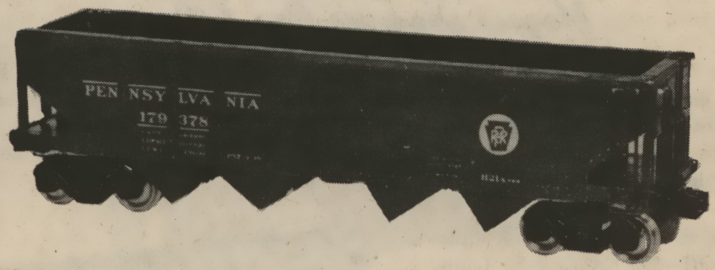
This complete Gilbert die cast car has a body showing all the detail of a real outside braced gondola with rivet detail on sides and ends. The body is in one piece and is easily mounted on the underframe which shows the air brake cylinder and has the bolsters attached ready to add trucks. The trucks have the tenite wheels and Gilbert automatic coupling system. Paint and decals are included. An additional variety of decals are listed and may be ordered for use with these cars.




HOG—288 Pennsylvania.
HOG—289 Lehigh New England.
HOG—290 Kit with decals of your choice.

## Laconia 70 Ton Hopper Car

A complete kit with rivet detail, embossed and printed sides and ends. Wood parts are cut to size and exact shape with special construction features for additional support. Detailed die cast end sills and dummy couplers. A stamped metal brake wheel and ladders with wire formed grab irons and steps. This kit is complete with paint and cement and Laconia trucks. The easy to follow plans give full instructions for quick assembly. This realistic hopper car will surely be an asset to your model railroad.




HOH—291 Laconia 70 ton Hoppers.

ANSWER: The construction of a large steam locomotive provides employment equivalent to the work of 50 men for one year.

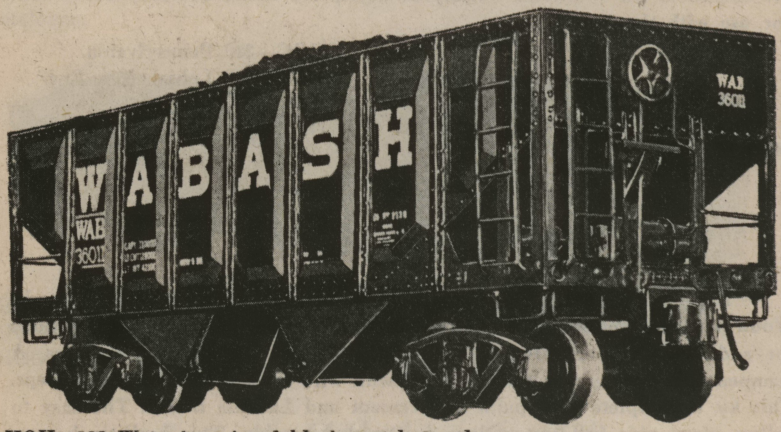
RAIL-ROAD QUIZ

How much boiler tubing is there in a steam locomotive?

# HO Freight Car Kits

## *Varney Hopper Car Kits*

This type of hopper car is constructed of two metal stampings interlocking at the corners. The sides are painted and lettered and embossed to show the detail of the rivets. The Westinghouse air brake system and Ajax type brake wheel are cast of tenite. Wire for the brake wheel staff, and the stamped metal ladders add character to this easy to build hopper car. Varney tenite couplers are included with each kit. Prices are quoted without trucks.

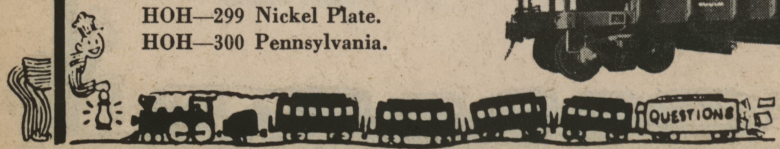



HOH—292 Wabash, painted black and lettered.
HOH—293 Delaware & Hudson, painted red and lettered.
HOH—294 New York Central, painted red and lettered.

## *Megow Hopper Car Kits*

This hopper car has an all wood body with white metal hardware. Die cast end sills, and Megow couplers. The hoppers are die cast and add weight to the car. A wooden air brake cylinder and all other wood parts are cut to size. Paint and cement are included. The kit is complete in every detail and the plans give full instructions for assembly.

HOH—295 Baltimore & Ohio.
HOH—296 C.C.C. & St. Louis.
HOH—297 Virginian.
HOH—298 Southern.
HOH—299 Nickel Plate.
HOH—300 Pennsylvania.




ANSWER: The average road locomotive in service has approximately one mile of boiler tubing.



Polk's Model Craft Hobbies, 314 5th Ave., N. Y. 1, N. Y.

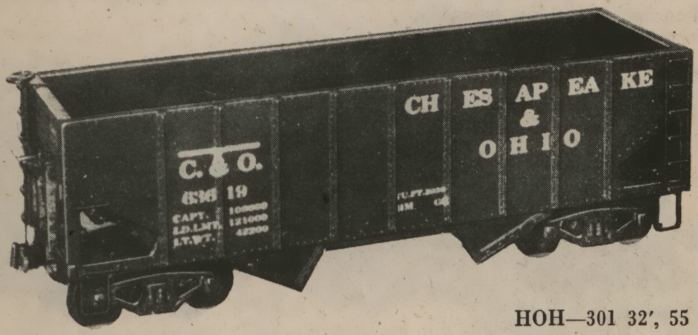
What was the fastest transcontinental run ever made?

QUIZ RAIL-ROAD

# HO Freight Car Kits

## W.K. Walther's De Luxe Hopper Cars

A DeLuxe kit with die cast sides and ends, both highly detailed. The die cast, heavy, bottom permits loading this car. All the hardware is complete, including die cast dummy couplers, air brake cylinder and stamped metal ladders. The body is cast in one piece and shows rivet detail. Trucks are assembled with tenite wheels. Decals of your favorite road are available as listed in the back of catalogue. Paint is not included.




HOH—301 32′, 55 ton.

## Walther's Standard Hopper Cars

A standard hopper with rivet embossed, cardboard sides. Die cast underframe, dummy couplers, airbrake system, stamped metal ladders, brake wheel with wire for staff and grab irons. This kit is complete with tenite trucks and decals of your favorite road as listed in back of catalogue.

HOH—302 32′, 55 ton.

ANSWER: In October, 1934, from Los Angeles to New York City, a distance of 3,248 miles in 56 hours and 55 minutes including stops en route, was the fastest run.

*Please Order by Both Name and Number*

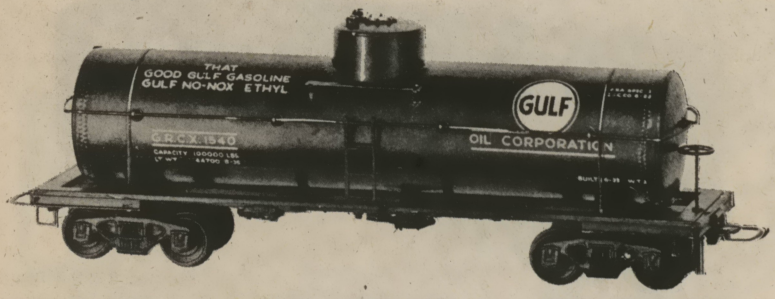
RAIL-ROAD QUIZ

When were sleeping cars introduced in America?

# HO Freight Car Kits

## Mantua Tank Car Kits

All metal underframe, tank, tank ends, and dome. Die cast plates for anchoring tank on detailed underframe. Finely printed and lettered tank wrapper of heavy paper is embossed to show detail. Die cast end sills, air brake system and stamp-metal tank bolsters, brass bands for tank, ladders and brake wheel. Channel brass for detail as per instructions. Screws and all necessary hardware is included for assembly. Trucks and couplers make this a complete kit, ready for assembly.

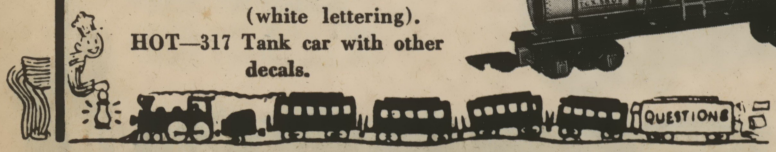



HOT—303 Gulf.
HOT—304 Texaco.
HOT—305 Standard Oil.
HOT—306 Deep Rock.
HOT—307 Republic.
HOT—308 Valvoline Oil.
HOT—309 Sinclair.
HOT—310 Mathieu.
HOT—311 General.
HOT—312 Shell.
HOT—313 Penn-Drake.
HOT—314 Quaker State.

## A-C Gilbert Tank Car Kit

The Gilbert scale tank car has all the detail of a real car. The body is die cast and is made of five units: Tank, underframe, two tank ends, and dome. These parts are finely detailed showing rivets, tank plates, air brake cylinder and end sills. Stamped metal ladders and screws are supplied. Tenite wheel trucks with an automatic coupler, paints and decals are included. A variety of decals listed may be used for these cars at the listed prices.

HOT—315 Texaco, silver (black lettering).
HOT—316 Sinclair, black (white lettering).
HOT—317 Tank car with other decals.




ANSWER: The first sleeping car in the world was operated between Harrisburg and Chambersburg, Pa., in the winter of 1836-37.



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1, N. Y.

In what ten-year period was American railway expansion the greatest?

QUIZ RAIL-ROAD

# HO Freight Car Kits

## *Walther's Tank Car Kits*

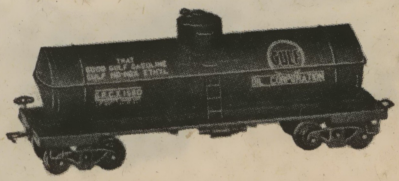
The all metal underframe is die cast and drilled for placement of hardware. A wood turned tank, painted silver on both ends can be covered with printed, rivet embossed tank wrapper, lettered and stamped for mounting. A die cast dome, air brake system and cat walk add character to this car. Wire grab irons and railings. Tenite wheel trucks and screws for mounting of die cast couplers. Stamped metal ladders.

HOT—318 Texaco.
HOT—319 Gulf.
HOT—320 Johnson.
HOT—321 DuPont.
HOT—322 Humble.
HOT—323 Deep Rock.
HOT—324 Conoco.
HOT—325 Selection of your favorite decals.

## *Megow Tank Car Kit*

The car tank and dome is made of wood, turned and shaped to size. The paper tank wrapper is carefully embossed with rivet detail and finely printed lettering. The underframe parts made of wood and cut to scale. Wire to form grab irons and hand rails. Stamped metal ladders, couplers, coupler pockets, cement and a full scale drawing make this car easy to build.

HOT—326 Gulf Tank.



ANSWER: Railway expansion reached its peak in the 1880's. From 1880 to 1889 inclusive, 74,720 miles of new railway lines were opened.

RAIL-ROAD QUIZ

Who was called the "Father of the Pacific Railroad"?

# HO Freight Car Kits

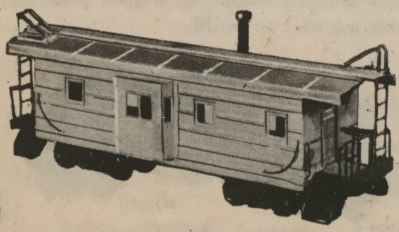
## Varney Caboose Kits

The standard design caboose has embossed metal sides with rivet detail, cupola, tool box and end sills. Steps and couplers are made of tenite. Stamped metal brake wheels, ladders and wood roof walks. Wire for forming grab irons. Precision cut wood floor and roof, cut to size and shaped. Tenite trucks are included. A complete set of plans with instructions. Kit complete—less paint and trucks.

HOCB—327 Red and no lettering.
HOCB—328 Embossed brass.

## Varney Bay Window Caboose

This new bay window caboose is made of two different materials. One type is made with embossed, colored and lettered cardboard sides, ends and cupola. The other of embossed foil without lettering. Both are finely colored and finely detailed. Embossed metal end sills, stamped metal ladders and brake wheel. The steps and couplers are of tenite. Precision shaped and cut to size wood parts for tool box, etc. A sturdy wood floor and roof adds strength. Prices are quoted without trucks.



HOCB—329 Embossed board, printed and lettered—Milwaukee Road.
HOCB—330 Aluminum foil, embossed, no lettering.

ANSWER: The first man of prominence to advocate a railroad to the Pacific coast was Asa Whitney, who was a New York merchant and world traveler.



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.

How did William F. Cody come to be known as "Buffalo Bill"?

QUIZ RAIL-ROAD

# HO Freight Car Kits

## W.K. Walther's Caboose Kit

A caboose of standard design that can be lettered for almost any railroad. Wood body with vertically scribed sides and open windows ready for adding the die cast window frames. Die cast underframe with integral platforms. Metal cupola is assembled and can be centered or placed off center on roof. Hardware includes stamped metal steps, ladders, detailed chimney, wire for grab irons and hand rails, etc. Decals of your favorite road are included. Kit is complete with trucks and plans for assembly.

HOCB—331 Walther's caboose assembly kit.

## A-C Gilbert Caboose Kit

This caboose kit has a one piece die cast body, showing all detail on the sides and ends. Stamped metal end rails with ladders are easily attached to body. A metal chimney is furnished, to be driven into hole in roof. Roof has a scribed roof walk. The underframe attaches to body with a few lugs and has tool box cast on it. Trucks with tenite wheels and Gilbert's automatic couplers attached, paint, and decals are included. An additional assortment of decals that may be obtained are listed

HOCB—332 New York Central assembly kit for caboose.

HOCB—333 Kit with decals listed.

ANSWER: He got that name as a result of his contract to supply Buffalo meat to the construction forces engaged in building the Union Pacific Railroad.

RAIL-ROAD QUIZ

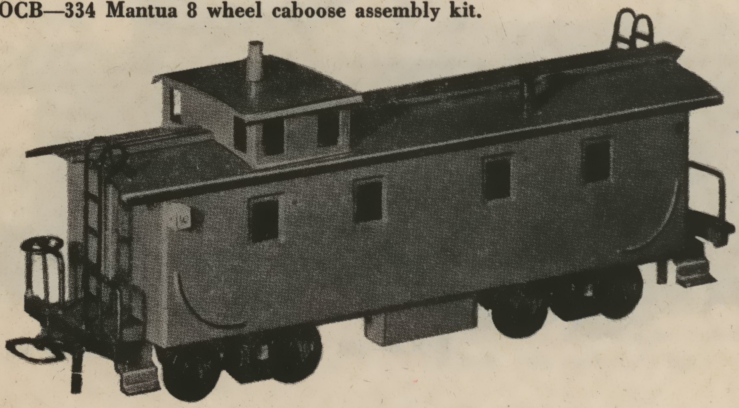
When was the first locomotive cab introduced?

# HO Freight Car Kits

## *Mantua 8 Wheel Caboose Kit*

Here's the caboose we have all been waiting for, the New Mantua 8 Wheel Caboose. It's all metal as is all the Mantua line. Easy to assemble, good to look at, and sturdy. Plenty of detail, and no specific road as a prototype, makes this hack a blessing to Model Railroaders, as the fan can letter the crummy after his own road without stepping on anybody's toes. Plenty big, too, about 30' long. Equipped with the famous Mantua Automatic Couplers.

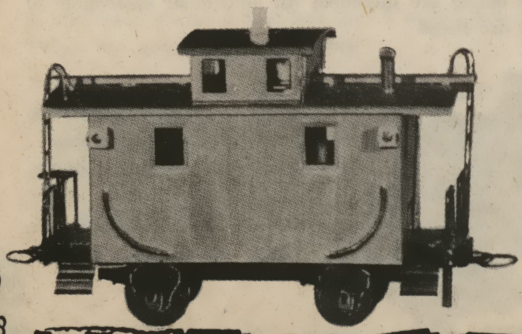
HOCB—334 Mantua 8 wheel caboose assembly kit.

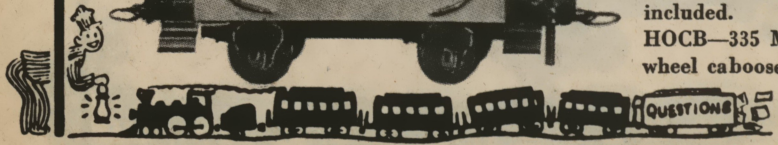


## *Mantua 4 Wheel Caboose*

This is the little brother to the new 8 wheel hack. A strong, little dog house to tack on the back of your way freight, or for that branch going up into the hills. Crummy, 2 to 4 cars, and a small engine make the perfect train for this type of operation. All metal construction makes for strength. All parts either die cast or sheet metal. Stamped metal ladder, brake wheel soldered to staff. A turned cupola light and marker lites set off the car. Complete plans furnished. Mantua automatic couplers. Formed wire handrails and detailed chimney are included.

HOCB—335 Mantua 4 wheel caboose assembly






ANSWER: The first locomotive equipped with a cab was the "Samuel D. Ingham", built by Eastwick & Harrison in Pennsylvania in 1835-36.



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.

What railroads experimented with tread-mills for motive power?

QUIZ RAIL-ROAD

# HO Freight Car Kits

## *Laconia Caboose Kit*

A complete caboose kit with finely lettered and embossed sides and ends. All wood parts put to size include backing for sides and ends, a wood floor, roof walks, etc. Die cast steps, end sills and couplers. Necessary wire for brake staff and grab irons, pins, screws, and washers are included. Turned metal air brake cylinder, and stamped metal ladders and brake wheels. Trucks, cement and two colors of paint with instructions make this a complete kit.

HOCB—336 Shawmut Caboose Kit.

## *Sterling Caboose Kit*

A caboose with two colors, black and tuscan red printed sides, ends, doors and cupola. The foregoing parts are finely lettered and detailed with proper wood backings cut to size. Wood roof, floor, and scribed roof walk. Celluloid for windows, die cast ladders, chimney, and sills and airbrake cylinder add much to the detail. Wire for hand rails and formed steps included. Simple method of construction and assembly given in plans. Tuscan red paint for touch up is included.

HOCB—337 D & RGW Caboose

HOCB—338 B & O Caboose

## *Megow Caboose Kit*

A wood body of accurately cut floor, roof and ends comprises backbone of this reasonably priced caboose. Metal ladders and end sills included. A turned wood air brake cylinder, cut blocks of wood for tool boxes. Celluloid for windows, wire for grab irons, railing, etc., are also combined in kit. Sides are clearly printed and lettered with proper style of lettering found on the prototype. Construction of this car is hollow so that a light may be installed if so desired. Plans and cement included.

ANSWER: In the early stages of their development, both the Baltimore & Ohio and the South Carolina Railroad tried cars with tread mills driven by horses.

RAIL-ROAD QUIZ

How many railroads in the U. S. operate more than 1,000 miles of road?

# HO Freight Car Kits

## Ideal Caboose Kit

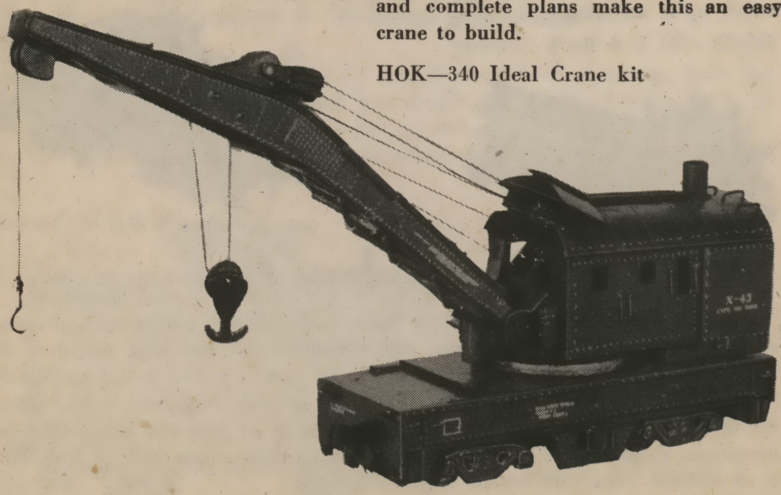
This model of the Pere Marquette caboose is easily constructed. The all wood body is covered with colored, printed and embossed sides, ends and cupola. The wood floor, roofs and all necessary wood parts are cut to the exact size. The bolsters, air brake assembly, steps are die cast. Stamped metal ladders, chain for platform ends and wire for the end rails is included. Complete with paint, cement, trucks and sandpaper and detailed plans for easy assembly.

HOCB—339 Pere Marquette Caboose kit.

## Ideal's New Wrecking Crane

A medium priced crane that really works. The cab is made of wood and heavy cardboard, printed, and rivet embossed sides. All wood parts are cut to size. The crane is weighted and balanced for actual use. Paint and cement, and complete plans make this an easy crane to build.

HOK—340 Ideal Crane kit



ANSWER: In January, 1940, there were 43 railroads operating more than 1,000 miles of railroad each.



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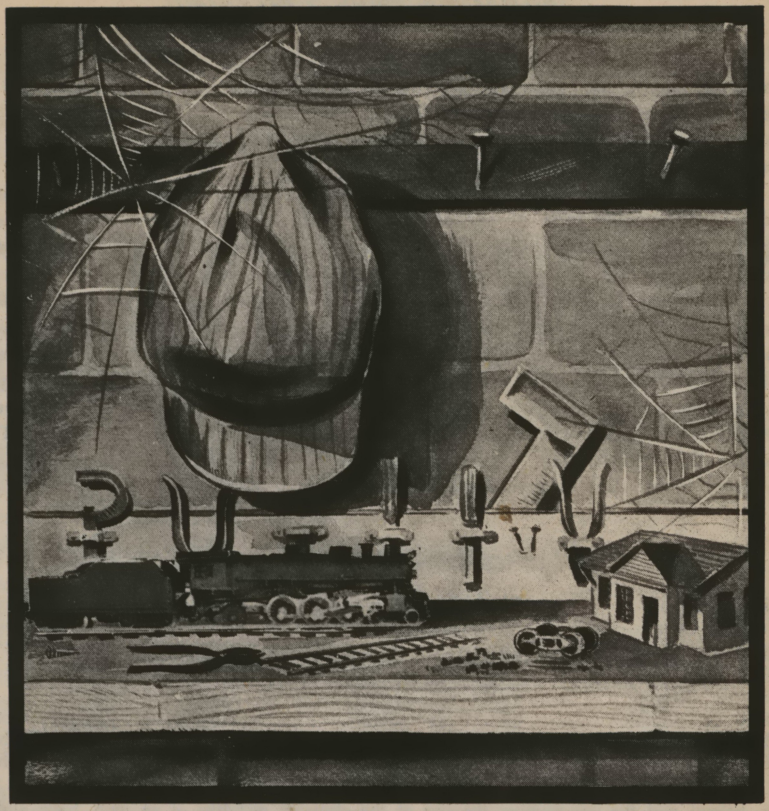

The ranks of modellers have been thinned by the absence of numerous enthusiasts who locked their switch and have switched their allegiance to the glorious crusade now on the march.

In the wake of these thinning ranks there remains a vast array of equipment, pathetically idle, even more important — IRREPLACEABLE.

If the military service or defense employment has blacked out your participation for the duration, a grand, typically American unselfish gesture would be the "unfreezing" of every item possible.

We will act as a clearing house for any operating-type locomotives destined for the duration lay-up. Defective but repairable locomotives considered, although condition will be a vital factor in arriving at allowance.

Bring or send any operating type loco — "O", "OO", or "HO". Inspection and evaluation immediately upon arrival. We will quote maximum cash value allowance, send BONDS, STAMPS, CREDIT CERTIFICATE for future purchases at Polk's or CASH, whichever you specify.

If not delighted with the liberal offer of our estimator, your locomotive will be promptly returned. We pay the charges for returning.

(To assure arrival in original condition, we suggest secure packing in wood carton. Insure for full value. DO NOT SEND C. O. D. Note that we prepay RETURN shipping charges).

*Polk's Model Craft Hobbies*

# Transfers For Lettering

Any model railroader who has done his lettering with a paint brush, pen or rubber stamp, need only to try one set of Walthers lettering transfers to convince himself of the superiority of this method. Only with this method can you duplicate with freedom of choice of number and detail. Application is simple and complete instructions accompany each set.

This system has been revised and you now receive every detail of lettering used on any specific type of car or by any road. In ordering be sure to specify three (3) things: (A) the gauge, O or HO; (B) the name of the road; (C) the type of car—as Auto, Box, Stock, Tank, Reefer, Baggage, Coach, Diner, etc.

Under the heading "Dimensional Data" are listed all the various types of cars for which we have transfers. This dimensional data includes: Capacities, dimensions, classification, a list of mechanical features usually painted on the sides of the car, and the date built or repaired. Each of these dimensional sets is complete for that type of car and gives you a selection where there is a reason for choice. For example, if your order calls for an O gauge Santa Fe Auto car, you will get complete dimensional data which will enable you to letter any one of the Auto cars listed under dimensional data for Auto cars.

# Alphabets and Numbers

| White Lettering Freight Cars | Black Lettering Refrigerators | Gold Lettering Passenger Cars |
|---|---|---|
| 4WR12 $\frac{3}{16}$" Roman | 4BR10 $\frac{5}{32}$" Roman | 1GE10 $\frac{5}{32}$" Extended |
| 4WR10 $\frac{5}{32}$" Roman | 4BR6 $\frac{3}{32}$" Roman | 1GE6 $\frac{3}{32}$" Extended |
| 4WR4 $\frac{1}{16}$" Roman | 4BR4 $\frac{1}{16}$" Roman | 1GE4 $\frac{1}{16}$" Extended |
| 6WL10 $\frac{5}{32}$" Gothic | 8BL10 $\frac{5}{32}$" Gothic | 2GL10 $\frac{5}{32}$" Extended Gothic |
| 6WL6 $\frac{3}{32}$" Gothic | 8BL6 $\frac{3}{32}$" Gothic | 2GL6 $\frac{3}{32}$" Extended Gothic |
| 6WL4 $\frac{1}{16}$" Gothic | 8BL4 $\frac{1}{16}$" Gothic | 2GL4 $\frac{1}{16}$" Extended Gothic |

NOTE: In the above numbering scheme the first figure is the No. of the type face (see Type Faces, below) and the last number the size of the alphabet in 64ths of an inch. Each alphabet consists of two sheets and each sheet contains the equivalent number of each character in a 4A set of type.

$\frac{3}{16}$" (12) = 9" letters in O gauge $\frac{5}{32}$" (10) = 7" letters in O gauge.
$\frac{3}{32}$" (6) = 5" letters in O gauge or 9" letters in HO gauge.
$\frac{1}{16}$" (4) = 3" letters in O gauge or 5" letters in HO gauge.

# Dimensional Data

Each item in this group includes all the dimensional and mechanical data required for lettering a car of the type indicated. Several selections of lengths and weights included. From this you can pick the data required for your car.

| White Lettering Freight Cars | Black Lettering Refrigerators | Gold Lettering Passenger Cars |
|---|---|---|
| BOX 36'—40' | REEFERS 36'—40' | LOCO. NUMBERS |
| AUTO 40'—50' | HOPPER 32' | PASS. CAR NAMES |
| STOCK 36'—40' | TANK 8000—10000 Gals. | CAR NUMBERS |
| REEFER 40' | CEMENT 30' | PULLMAN CAR NAMES |
| FLAT 40'—46'—50' | | EXPRESS REEFERS |
| GOND. 40'—46'—50' | | |
| HOPPER 32'—40'—50' | CEMENT 30' | |
| TANK 8000—10000 Gal. | LOCO. NUMBERS | |



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.

# Transfers

The following freight car lettering decals are set in type face No. 5: CN, CP, GTW, HCRR; the following in type face No. 6: GBW, GN, L&A, MKT, MP, T&P, VGN, WAB. The following are special: NKP, N&W, PM, UP. All others are set in type face No. 4.

The following passenger car lettering decals are set in special type: Santa Fe, Union Pacific. All others are set in type face No. 1.

Refrigerator and Tank Car lettering varies so much that it is impossible to list the different type faces used.

## Type Faces

**NEW YORK CENTRAL**
TYPE NO. 1 AVAILABLE HEIGHTHS: 1-16, 5-64, 7-64, 9-64, 3-16 INCHES.

**PENNSYLVANIA**
TYPE NO. 2 AVAILABLE HEIGHTHS: 5-64, 7-64, 9-64, 11-64 INCHES.

**NORFOLK & WESTERN**
TYPE NO. 3 AVAILABLE HEIGHTHS: 5-32, 3-16 INCHES.

**CHICAGO AND NORTHWESTERN**
TYPE NO. 4 AVAILABLE HEIGHTHS: 1-16, 5-64, 7-64, 1-8, 9-64, 3-16, 1-4 INCHES.

**GRAND TRUNK WESTERN**
TYPE NO. 5 AVAILABLE HEIGHTHS: 7-64, 5-32, 3-16 INCHES.

**MISSOURI PACIFIC**
TYPE NO. 6 AVAILABLE HEIGHTHS: 7-64, 9-64, 3-16, 1-2 INCHES.

**CENTRAL RAILROAD OF NEW JERSEY**
TYPE NO. 7 AVAILABLE HEIGHTHS: 5-32, 3-16 INCHES.

**NORTHERN REFRIGERATOR CAR CO.**
TYPE NO. 8 AVAILABLE HEIGHTHS: 5-64, 5-32 INCHES.

## Passenger Car Lettering

Gold Lettering
Road Name
Atlantic Coast Line
Baltimore & Ohio
Boston & Maine
Burlington
Canadian National
Canadian Pacific
Chesapeake & Ohio
Chgo. N. S. & Milw.
Chgo. & North West.
Chgo. S. S. & S. Bend
Erie
Frisco (SLSF)
Great Northern
Illinois Central
Lackawanna
Lehigh Valley
Long Island
Miss. Kansas Texas
Miss. Pacific Lines
Milw. Electric
Milw. Road
New Haven
New York Central
Norfolk & Western
Northern Pacific
Pennsylvania
Public Service
Pullman
Rock Island (CRIP)
Santa Fe (AT&SF)
Seaboard
Southern
Southern Pacific
Texas Pacific
Union Pacific

P.T. BARNUM'S "GREATEST SHOW ON EARTH" WAS THE FIRST CIRCUS TO TRAVEL BY RAILROAD-MAKING ITS FIRST TRIP IN 1872 IN 65 SPECIAL CARS.

Please Order by Both Name and Number

# Locomotive Lettering

We can not supply correct lettering for locomotives where this lettering differs from that used on standard freight or passenger car equipment. However, in many cases, the usual freight or passenger car lettering can be adopted. In making up our locomotive sets we will include several sizes of numbers suitable for the tender, cab, domes and headlights including data for tanks and small letters for classification in addition to road name and initials and herald if available. (Special heralds if different from those used on freight cars are not available.) We list below the roads we have checked where the lettering is a good match.

**White Letters and Numbers,** ATSF, B&M, B&O, BS, CB&Q, CGW, CNJ, C&O, MILW, C&NW, RI, DT&I, Erie, GN, IC, LV, MP, MKT, NH, NYC, GN, RGD, SP, T&P, UP.

**Gold Lettering and Numbers,** MILW, PENN, CAN. PAC.

**White Lettering and Numbers,** (For streamlined equipment) SP, NYC, UP, C&NW, NH.

**Gold Lettering and Numbers,** (For streamlined equipment) PENN, B&O.

# Refrigerator Car Lettering

ART American Ref.
SFRD Santa Fe
BREX Burlington
IC Central Despatch
URTX Chgo. Great West.
C&NW Chgo. North West.
CN Canadian National
CP Canadian Pacific
URTX Erie
SFRD El Capitan
FGEX Fruit Growers' Exp.
GARX General American
SFRD Grand Canyon
WRX Green Bay Western
WFEX Great Northern
IC Ill. Central
LRX Lackawanna
MDT Merchants' Despatch
URTX Milwaukee
GARX Mo. Kansas Texas
URTX Minn. St. Louis
MDT New York Central
MDT Nickel Plate
NADX North American
NP Northern Pacific
NRC Northern Car
NWX North Western
NWX Mo. & Ark.
PFEX Pacific Fruit Exp.
GARX Rock Island
URTX Soo
PFEX Southern Pacific
SLRX St. Louis Refrig.
SSW St. Louis So. West.
SFRD Super Chief
SFRD Scout
SFRD Chief
PFEX Union Pacific
URTX Union Ref. Transit
PFEX Western Pacific
WFEX Western Fruit Exp.

# Private Owned Refrigerator Cars

| Mark | Name of Owner |
|---|---|
| URTX | Atl. & Pac. Tea Co. |
| NADX | Baby Ruth Candy |
| URTX | Carnation Wheat |
| URTX | Carnation Milk |
| CIPX | College Inn Foods |
| ARTX | Crazy Water Crystals |
| DMRX | Deckers' Hams |
| URTX | Heileman Beer |
| HERX | Hershey Chocolate |
| NADX | Hershey Choc. Co. |
| URTX | Hormel Good Food |
| URTX | Ind. Grocers All. |
| URTX | Jelke's Margarine |
| KOHX | Kohrs Packing Co. |
| NADX | Land-O-Lakes |
| MFAX | Land-O-Smiles |
| URTX | Miller Beer |
| NRCX | NRC Bananas |
| NADX | Noak and Sons |
| URTX | Nucoa Best Foods |
| NPKX | Nuckells Pack. Co. |
| CRLX | Old Dutch Cleanser |
| URTX | Pabst Beer |
| URTX | Pabst-ett Cheese |
| NADX | Pac. Egg. Prod. |
| NADX | Page Milk |
| NADX | Pluto Water |
| URTX | Prima Beer |
| URTX | Phenix Cheese |
| URTX | Schlitz Beer |
| WWDX | Wescott & Winks |
| WCLX | Wilsons—Meats |

# Tank Car Lettering

**Black Lettering and Colors For Aluminum Cars**

| Mark | Name of Road |
|---|---|
| BMX | Barrett Company |
| CONX | Conoco |
| DUPX | DuPont |
| TTEX | Eason Oil |
| GCX | General Chemical |
| HOX | Humble Oil |
| JORX | Johnson Oil |
| KOTX | Kanotex Refining |
| KOTX | Kanotex (colored) |
| MPCX | Magnolia Pet. Corp. |
| SOVX | Mobilgas |
| SDRX | Sinclair |
| TCX | Texaco |

**White Lettering and Colors For Black Cars**

ATX American Tank
EORX Cities Service
CONX Conoco
CPCX Cosden Pet. Corp.
DRX Deep Rock
GRCX Gulf Refining
GARX Koppers Tarmac
HPCX Paper Makers' Chem.
CYCX PennDrake
PSPX Philgas
PSPX Phillips 66
RPX Shell Oil
SDRX Sinclair
PTLX White Rose



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## Express Refrigerator Lettering

**Chrome Yellow or Gold**
BWX Borden Weiland
BOWX Bowman Dairy
CP Canadian Pacific
GARE Dairymen's League
SLSF Frisco Lines

GARX General American
GN Great Northern
*GARE Hood's Dairy
IC Illinois Central
MILW Milwaukee Road
MP Missouri Pacific
NP Northern Pacific

PFEX Pacific Fruit Exp.
Penn Pennsylvania
REA Railway Exp. Ag.
SFRD Santa Fe
SAL Seaboard
GREX Sheffield Farms

*Made only in O Gauge.

## Applying Transfer Lettering

Transfers are one of the simplest ways to letter your cars. With transfers you can use any number for your car and you can choose your classification marks and details. These little variations are important if you have a number of similar cars. Perhaps you have your own numbering scheme in which the number indicates the year and month the car was built. You cannot do this with printed sides, neither can you obtain the large number of combinations as with transfers.

Before dipping the transfer trim away all the excess paper and film. In other words cut the lettering out of the sheet. If there are several lines of lettering it is best to split it up as smaller pieces are easier to handle than large ones.

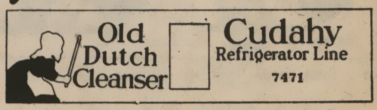
Transfers consist of water absorbent paper, a layer of solvent, another layer of adhesive, a cellutate film and the special ink. To use, the cellutate film with its ink must be separated from the paper. This is done by water absorption. This does not mean "soaking" in water. The best way is to dip the transfer in water that is not too hot or cold, for a moment and then lay the wet transfer on a blotter. If wet enough it will curl slightly. Do not get it too wet because this will remove the adhesive and the transfer will then fail to stick.

When the transfer has absorbed enough water you can slip the film from the paper onto the spot where the lettering is to be. You can move this film about while it is wet. Get it located and when in the right spot press it down with a blotter or rag. When pressed in this way all the water will be pushed out from between the car and the transfer, and the transfer will then adhere. Once pressed down it cannot be moved again. A small camels-hair brush comes in handy to wet the spot on which the transfer is to be applied. Tooth pick and tweezers are also handy tools to move the smaller pieces.

After your transfers are all in place give the car a coat of dull lacquer or "fixitive." This kills the gloss and hides the film which connects the letters. Be sure the car is dry before applying the varnish.

## Private Reefers

101 Sides: Yellow; Roof, Ends, Underbody: Box Car Red

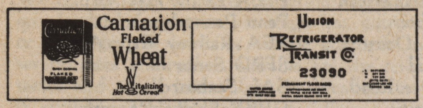



131 Sides: Yellow, Roof, Ends, Underbody: Box Car Red

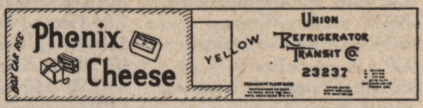


The Nation's Leading Hobby House

# Private Reefers (continued)



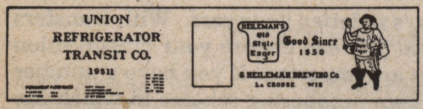

103 SIDES: YELLOW; ROOF, ENDS, UNDERBODY: BOX CAR RED



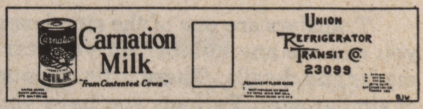

104 SIDES: PAINT AS SHOWN ENDS, ROOF, UNDERBODY: BOX CAR RED

105 SIDES: YELLOW; ROOF, ENDS, UNDERBODY: BOX CAR RED

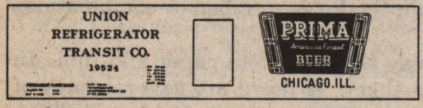
106 SIDES: YELLOW: ENDS, ROOF, UNDERBODY: BOX CAR RED




107 SIDES: YELLOW; ROOF, ENDS, UNDERBODY: BOX CAR RED

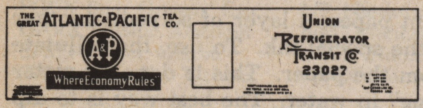



108 SIDES: YELLOW: ENDS, ROOF, UNDERBODY BOX CAR RED

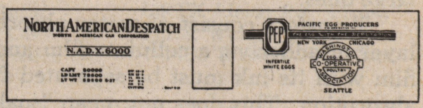



109 SIDES: YELLOW; ROOF, ENDS, UNDERBODY: BOX CAR RED

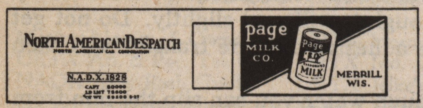
110 SIDES: YELLOW: ENDS, ROOF, UNDERBODY BOX CAR RED



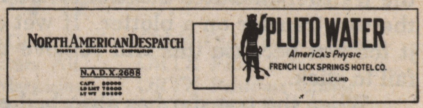

111 SIDES: YELLOW; ROOF, ENDS, UNDERBODY: BOX CAR RED




112 SIDES: WHITE; ROOF, ENDS, UNDERBODY BOX CAR RED

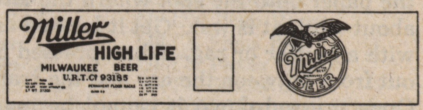



113 SIDES: WHITE: ROOF, ENDS, UNDERBODY BOX CAR RED



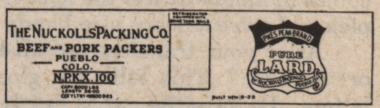

114 SIDES: WHITE ROOF, ENDS, UNDERBODY, BOX CAR RED

115 SIDES: YELLOW: ROOF, ENDS, UNDERBODY: BOX CAR RED

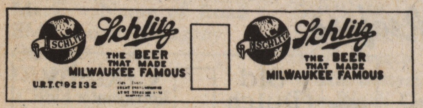



116 SIDES YELLOW; ROOF, ENDS, UNDERBODY BOX CAR RED

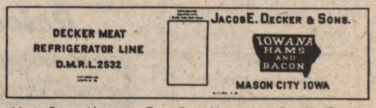
117 SIDES: YELLOW; ROOF, ENDS, UNDERBODY. BOX CAR RED




118 SIDES: YELLOW; ROOF. ENDS. UNDERBODY: BOX CAR RED




119 SIDES: YELLOW; ROOF-ENDS, UNDERBODY: POX CAR RED.

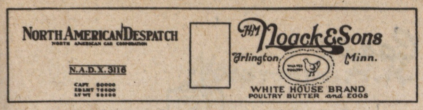



120 SIDES: YELLOW; ROOF, ENDS, UNDERBODY: BOX CAR RED

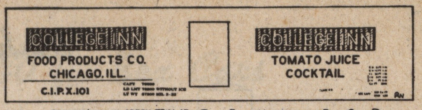
## W. K. Walther's Transfers



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1, N. Y.



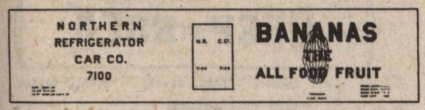

121 SIDES: YELLOW; ROOF, ENDS, UNDERBODY BOX CAR RED



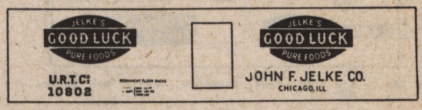

122 SIDES: YELLOW, GREEN TRIM AT TOP & BOTTOM; ROOF, ENDS, UNDERBODY: BOX CAR RED.

123 SIDES & ENDS BRIGHT RED; ROOF & UNDERBODY BLACK

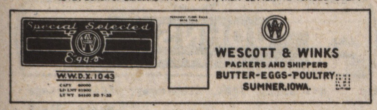
124 SIDES: YELLOW; ROOF, ENDS, UNDERBODY BOX CAR RED



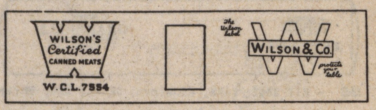

125 SIDES: YELLOW: ROOF & UNDERBODY: BOX CAR RED
NOTE, BUNCH OF BANANAS APPLIED FIRST, THEN LETTERING PLACED OVER.




126 SIDES: YELLOW; ROOF, ENDS, UNDERBODY BOX CAR RED




127 SIDES YELLOW; ROOF, ENDS, UNDERBODY BOX CAR RED




128 SIDES YELLOW; ROOF, ENDS, UNDERBODY: BOX CAR RED

# Freight Car Lettering

**White Lettering**

| Mark | Name of Road |
|---|---|
| Am. Ry. Exp. | |
| ACL | Atl. Coast Line |
| AT&SF | Santa Fe |
| B&LE | Bess. & Lake Erie |
| B&M | Boston & Maine |
| B&O | Baltimore & Ohio |
| BS | Birmingham South. |
| BRC | Belt Ry. Chgo. |
| Canadian National | |
| CP | Canadian Pacific |
| C&A | Alton Road |
| CB&Q | Burlington |
| CCCStL | Big Four (NYC) |
| C&EI | Chgo. & East. Ill. |
| CG | Central of Georgia |
| CGW | Chgo. Great West. |
| CNJ | Central New Jersey |
| C&O | Chesapeake & Ohio |
| C&IM | Chgo. & Ill. Midland |
| MILW | Milwaukee Road |
| C&NW | Chgo. & North West. |
| RI | Chgo. Rock Island |
| CStP&O | C. St. P. & Omaha |
| D&H | Delaware & Hudson |
| DL&W | Lackawanna |
| D&RGW | Rio Grande |
| DSS&A | Dul. S. Shore & Atl. |
| DT&I | Det. Tol. & Ironton |
| EJ&E | Elgin Jol. & Eastern |
| ERIE | Erie |
| GBW | Green Bay Western |
| GN | Great Northern |
| GTW | Grand Trunk West. |
| HCRR | Hannibal Connect. |
| IC | Illinois Central |
| IN | Illinois Northern |
| ITC | Illinois Terminal |
| KCS | Kansas City South. |
| LNE | Lehigh New Eng. |
| LV | Lehigh Valley |
| L&A | Louisiana & Ark. |
| L&N | Louisville & Nash. |
| MCRR | Michigan Central |
| M&StL | Minn. & St. Louis |
| MKT | Mo. Kansas Texas |
| MP | Missouri Pacific |
| CIL | Monon Route |
| NH | New Haven |
| NYC | New York Cent. |
| NKP | Nickel Plate |
| N&W | Norfolk & West. |
| NC&StL | Dixieland |
| NP | Northern Pacific |
| PMcKY | McKeesport |
| Penn | Pennsylvania |
| PM | Pere Marquette |
| PLE | Pitt. Lake Erie |
| PH&D | Port Huron & Det. |
| RDG | Reading Co. |
| RF&P | Rich., Fredericksburg & Potomac |
| SAL | Seaboard |
| S&A | Savannah & Atlanta |
| SLSF | Frisco Lines |
| SSW | Cotton Belt |
| SOO | Soo Lines |
| S | Southern |
| SP | Southern Pacific |
| SP&S | Spok. Port. & Seat. |
| T&P | Texas & Pacific |
| UP | Union Pacific |
| VGN | Virginian |
| WAB | Wabash |
| WM | Western Maryland |
| WP | Western Pacific |

**Colored Lettering**

| Mark | Road Name |
|---|---|
| HCBX | Hills Bros. Coffee |
| UP | Challenger (Un. Pac.) |
| SLSF | Frisco Fast Feight |
| *Menasha | Woodenware |
| SP | Overnight Merch. Serv. |

**Black Lettering**

| Mark | Road Name |
|---|---|
| B&O | Baltimore & Ohio |
| N&W | Norfolk & Western |
| NYC | New York Central |
| PENN | Pennsylvania |

**Special Lettering**

| Mark | Road Name |
|---|---|
| AT&SF | Chief |
| AT&SF | Scout |
| AT&SF | Super Chief |
| AT&SF | Grand Canyon |
| AT&SF | El Capitan |
| C&NW | 400 and Stream. |
| CB&Q | Way of the Zephyrs |
| GM&O | Rebel Route |
| L&A | Southern Belle |
| LV | Black Diamond |
| NH | (Scroll Herald) |
| SAL | Silver Meteor |
| StLSW | Blue Streak |

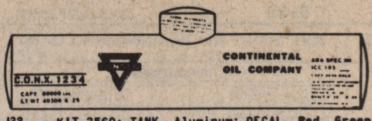
*Made only in O Gauge.



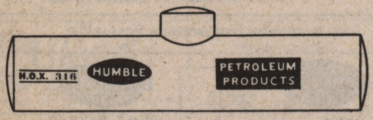
Please Order by Both Name and Number

# Tank Cars

132 - KIT 3560; TANK, Aluminum; DECAL, Red, Black

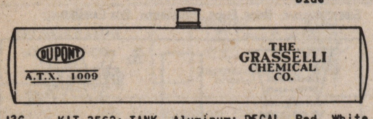



133 - KIT 3560; TANK, Aluminum; DECAL, Red, Green

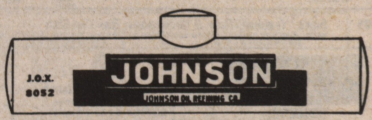



134 - KIT 3560; TANK, Aluminum; DECAL, Red, White, Blue

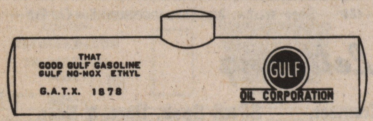
135 - KIT 3560; TANK, Black; DECAL, Yellow



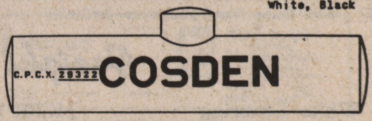

136 - KIT 3562; TANK, Aluminum; DECAL, Red, White




137 KIT 3560; TANK, Aluminum; DECAL, Orange White, Black




138 - KIT 3560; TANK, Black; DECAL, Red, White

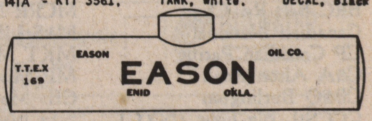



139 - KIT 3560; TANK, Black; DECAL, White

140 KIT 3560, TANK, White; DECAL, Black

141 - KIT 3560; TANK, Aluminum; DECAL, Red, Black;
141A - KIT 3561, TANK, White. DECAL, Black

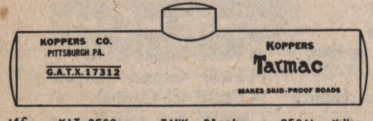
142 - KIT 3560; TANK, Black; DECAL, White; ENDS & DOME, Red



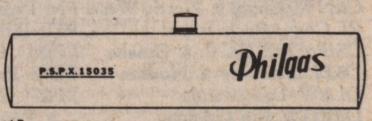

143 KIT 3560; TANK, Aluminum; DECAL, Green

144 KIT 3560; TANK, Black, DECAL, White

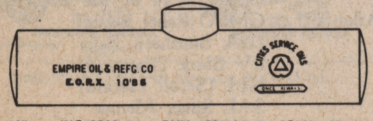
145 KIT 3560; TANK, Black; DECAL, White



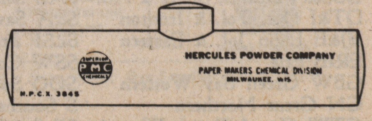

146 - KIT 3560; TANK, Black; DECAL, Yellow




147 - KIT 3562; TANK, Black, DECAL, White




148 KIT 3560; TANK, Black, DECAL, White



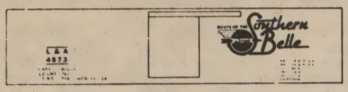

149 KIT 3560; TANK, Red DECAL, White, Black

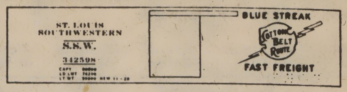
## W. K. Walther's Transfers

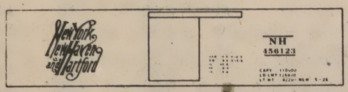


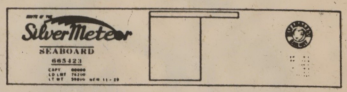
Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.

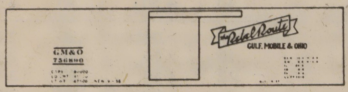
# New—A.A.R. 40 ft. Box Cars

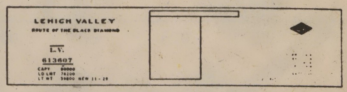


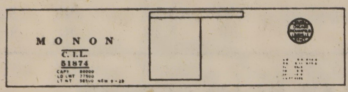



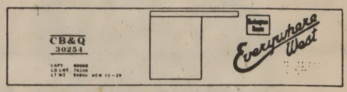



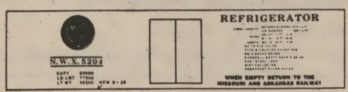



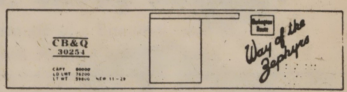



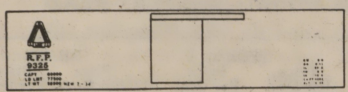



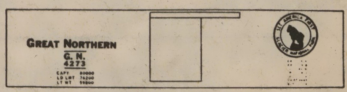



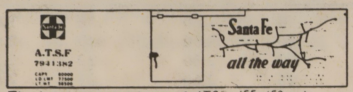



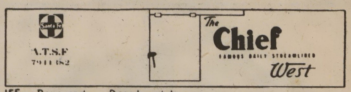



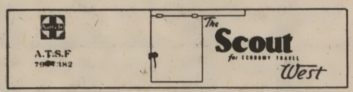




This layout is on opposite side of ATSF 155-159 incl

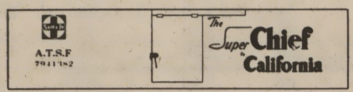



155 Box: red Decal: white

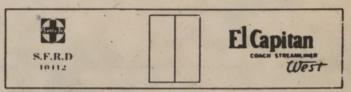



156 Box: red Decal: white

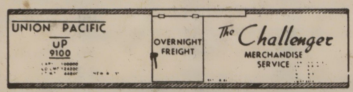
157 Refr Orange Decal: black



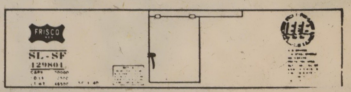

158 Box red Decal: white



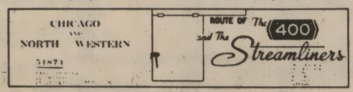

159 Refr: Orange Decal black



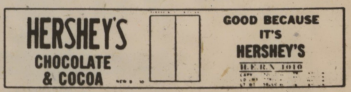

160 Box gray with red trim Decal red, yellow



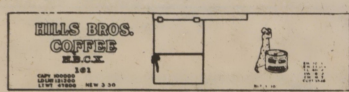

161 Box tan Decal: brown, orange



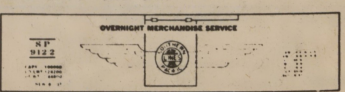

162 Box: red Decal white




163 Refr: brown Decal silver




102 Entire Car Box Car Red (40 ft 50 ton Wood Box Car [illegible])




165 Box black Decal yellow

## W. K. Walther's Transfers



The Nation's Leading Hobby House

## HEXAGON HEAD SCREWS

Steel screws are made from high-quality cold drawn hexagon screw stock. Brass screws are made from commercial rolled hexagon brass rod. All screws are milled from the bar, have cut threads and approximately the same head proportions as the Hexagon Head Cap Screws made to the National Screw Thread Commission standards.

| Screw Size | No. Threads per Inch | Dia. of Screw | Diam. of Head* | Length of Head | Length of Screw | STEEL Price Per Doz. | STEEL Price Per Gro. | BRASS Price Per Doz. | BRASS Price Per Gro. |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 80 | .060 | 3/32 | .040 | 1/8 | .18 | 1.80 | .18 | 1.80 |
| | | | | | 3/16 | .20 | 2.00 | .20 | 2.00 |
| | | | | | 1/4 | .22 | 2.30 | .22 | 2.30 |
| | | | | | 5/16 | .25 | 2.60 | .25 | 2.60 |
| | | | | | 3/8 | .28 | 2.90 | .28 | 2.90 |
| | | | | | 1/2 | .30 | 3.00 | .30 | 3.00 |
| | | | | | 5/8 | .30 | 3.20 | .30 | 3.20 |
| 1 | 72 | .073 | 7/64 | .055 | 1/8 | .20 | 2.00 | .20 | 2.00 |
| | | | | | 3/16 | .20 | 2.10 | .20 | 2.10 |
| | | | | | 1/4 | .22 | 2.30 | .22 | 2.30 |
| | | | | | 3/8 | .28 | 2.90 | .28 | 2.90 |
| | | | | | 1/2 | .30 | 3.10 | .30 | 3.10 |
| | | | | | 5/8 | .30 | 3.30 | .30 | 3.30 |

## FILLISTER, ROUND AND FLAT HEAD SCREWS

Sizes 0-80 and 1-72 are milled from the bar with cut threads.
Sizes 2-56 and 3-48 are commercial screws with rolled threads.

**Machine Screws** — **FILLISTER, ROUND AND FLAT HEAD**

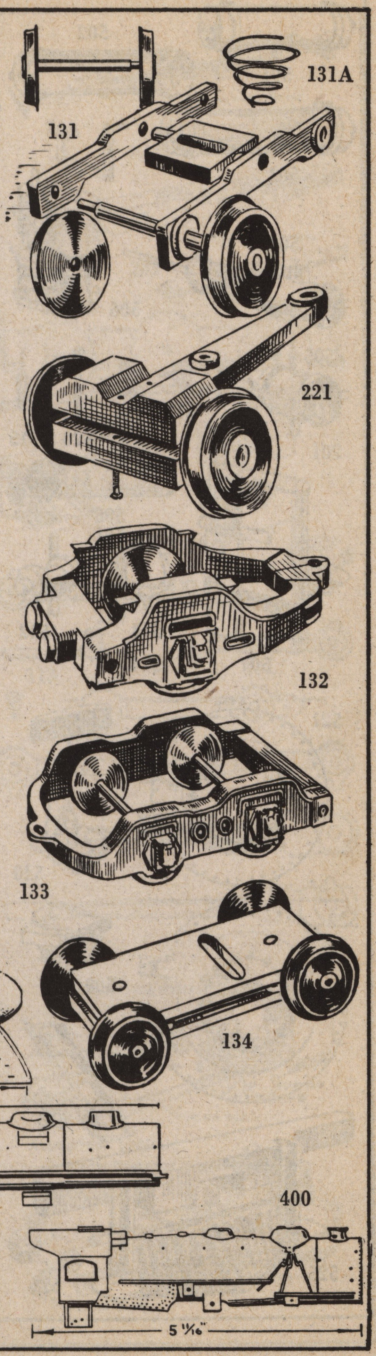
| Screw Size | No. Threads Per Inch | Length of Screw | STEEL Price Per Doz. | STEEL Price Per Gro. | BRASS Price Per Doz. | BRASS Price Per Gro. |
|---|---|---|---|---|---|---|
| 0 | 80 | 1/8 | .18 | 1.80 | .18 | 1.80 |
| | | 3/16 | .20 | 2.00 | .20 | 2.00 |
| | | 1/4 | .22 | 2.30 | .22 | 2.30 |
| | | 5/16 | .25 | 2.60 | .25 | 2.60 |
| | | 3/8 | .28 | 2.90 | .28 | 2.90 |
| | | 1/2 | .30 | 3.00 | .30 | 3.00 |
| | | 5/8 | .30 | 3.20 | .30 | 3.20 |
| 1 | 72 | 1/8 | .20 | 2.00 | .20 | 2.00 |
| | | 3/16 | .20 | 2.10 | .20 | 2.10 |
| | | 1/4 | .22 | 2.30 | .22 | 2.30 |
| | | 3/8 | .28 | 2.90 | .28 | 2.90 |
| | | 1/2 | .30 | 3.10 | .30 | 3.10 |
| | | 5/8 | .30 | 3.30 | .30 | 3.30 |
| 2 | 56 | 1/8, 3/16, 1/4 | .06 | .30 | .07 | .35 |
| | | 5/16 | .06 | .30 | .07 | .35 |
| | | 3/8, 1/2 | .07 | .35 | .08 | .40 |
| | | 5/8 | .07 | .35 | .09 | .45 |
| | | 3/4 | .08 | .40 | .10 | .50 |
| | | 7/8 | .08 | .40 | .12 | .60 |
| 3 | 48 | 1/4 | .06 | .30 | .08 | .40 |
| | | 5/16 | .06 | .30 | .09 | .45 |
| | | 3/8, 1/2 | .07 | .35 | .09 | .45 |
| | | 5/8 | .07 | .35 | .10 | .50 |
| | | 3/4 | .08 | .40 | .12 | .60 |
| | | 7/8 | .08 | .40 | .14 | .70 |



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.

## Varney Locomotive Parts

VL-131 Castings Truck Kit (3 castings, 2 pair wheels and special spring)
VL-131A Spring
VL-221 Pony Truck Castings (2 castings and 1 pair wheels)
VL-132 Trailer Truck Castings Kit (unassembled). This is a booster type. The dummy steam cylinders are clearly detailed in the die castings. The detail engraved into this set of side frames, right and left, is clear and sharp
VL-133 Trailing Truck (4 wheel) brass and castings, assembled
ML-134 Mantua Trailing Truck. Die-cast frame and Tenite wheels, assembled.



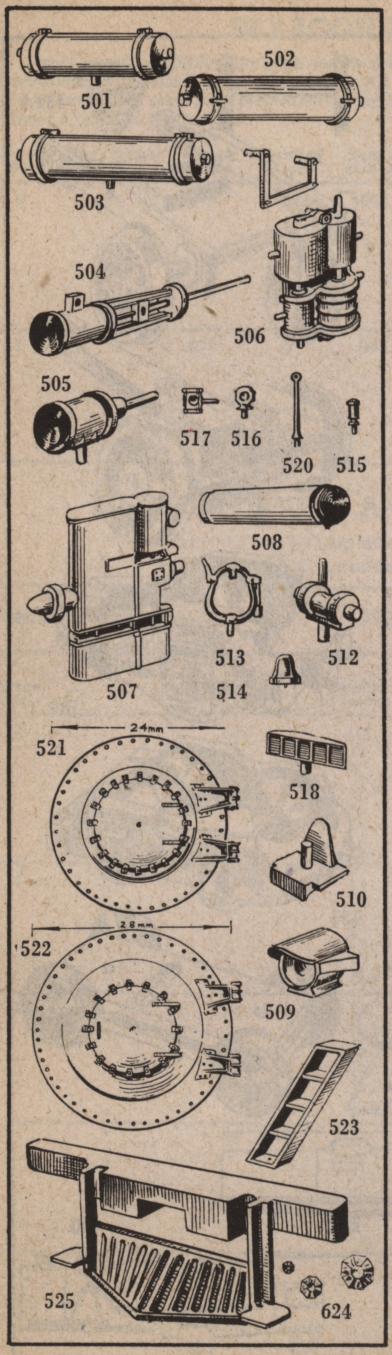

## Locomotive Bodies

Locomotive bodies are sold separately, and come to the railroader with all holes drilled for hand rail posts and piping wire. Boiler fittings are attached by lugs. "Rough Castings" are sold by special order to those who wish to do the finished work at a 25% discount.

VL-400 Pacific, or Light Mikado body
VL-402 Consolidation Loco body
VL-403 Steam Outline Streamline body
VL-405 Articulated, Aluminum casting
VL-406 Articulated, Brass casting



*Please Order by Both Name and Number*




# *Varney Locomotive Parts*

**Each Varney Locomotive part is designed and manufactured with all the care of the jeweler's art. These parts have every vistage of detail, characteristic of the prototype.**

VL-501 Tank 5 ft.
VL-502 Tank 6 ft.
VL-503 Tank 7 ft.
VL-504 Power reverse Cylinder, 2 piece
VL-504A Link only
VL-505 Air Brake Cylinder, Loco or Tender
VL-506 Air Pump (Westinghouse) cross compound
VL-507 Feedwater Heater (Worthington)
VL-508 Elesco Feedwater Heater
VL-509 Headlight
VL-510 Headlight Bracket
VL-511 Headlight and Bracket, set
VL-512 Turbo Generator
VL-513 Bell Bracket
VL-514 Bell (Turned Brass)
VL-515 Whistle
VL-516 Classification Lights or Marker Lights, end type
VL-517 Classification Lights or Marker Lights, side type
VL-518 Indicator Boards, pair
VL-520 Railing Stanchions, 34 in. scale height for bridges, etc.
VL-521 Boiler Front, 24 mm. (15/16 in.) Pacific type
VL-522 Boiler Front, 28mm. (11/16 in.) Consolidation type
VL-523 Engine steps (castings only) ea.
VL-524 Engine step assembly; step plate, steps, screws
VL-525 Pilot, brass castings, not drilled, ea.
VL-525A Pilot, drilled, cleaned, coupler attached
VL-623 Jewels (marker, classification lights) colors, choice: red, amber, green, white or assorted, doz.
VL-624 Jewels, for Headlight and Backup Light, pair



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## *Varney Locomotive Parts*

VL-101 Main Frame Casting, Pacific, Drilled and Tapped
VL-102 Cover Plate Casting, Pacific
VL-201 Main Frame Casting, Consolidation, (drilled and tapped)
VL-202 Cover Plate Casting, Consolidation
VL-301 Main Frame Casting, Mikado, (drilled and tapped)
VL-302 Cover Plate Casting, Mikado
VL-103 Main bearings (fixed) set
VL-104 Floating Bearings, each
VL-105 Bearing springs (phosphor bronze) per leaf
VL-106 Screws ¼ in., 0/80 flathead for Bearings, dozen

## *Side and Main Rods*

PACIFIC, FLUTED

VL-110 Front, large section, ea.
VL-111 Rear, small section, ea.
VL-112 Complete section with screws, ea.

CONSOLIDATION, NOT FLUTED

VL-210 Small section, ea.
VL-211 Middle large section, ea.
VL-212 Small section, ea.
VL-213 Complete set with screws

MAIN RODS

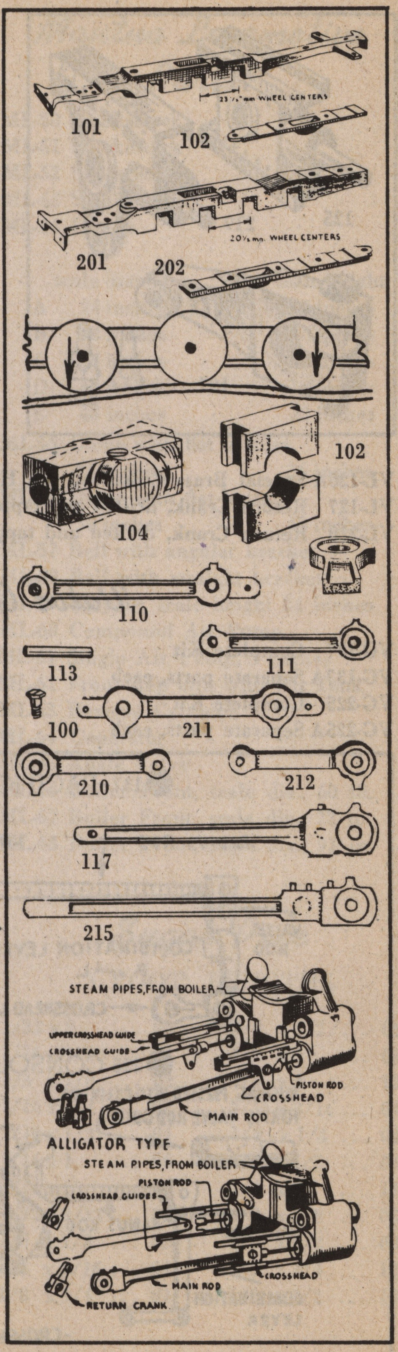
VL-116 Pacific, fluted, castings only, pr.
VL-117 Length 37mm. Pacific, drilled and tapped, pair

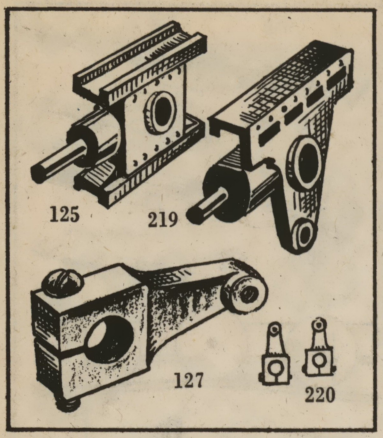
MAIN RODS

VL-214 Consolidation, fluted, castings only, pair
VL-215 Consolidation, drilled, tapped (consolidation length main pin C/L to end of casting, 44mm.)

CRANK PINS (SCREWS)

VL-100 Special steel slotted hex head shouldered
VL-113 Main crank pins, special for press fit into drive wheel, No. 47 drill rod ⅜ in. long, pair





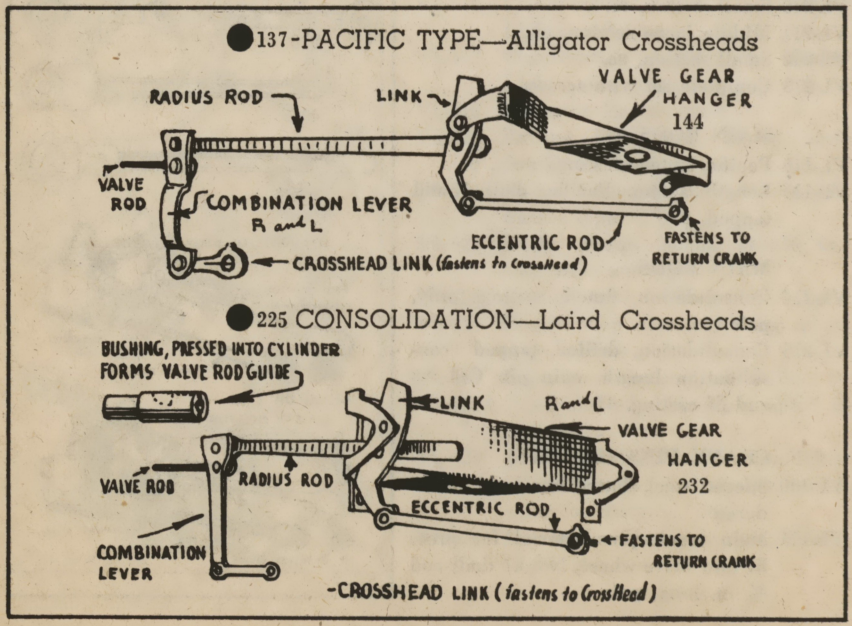

## Varney Locomotive Parts

VL-125 Alligator Crosshead castings, pair
VL-125C Alligator Crosshead, pair, with piston rods and guides
VL-219 Laird Crosshead castings, pair
VL-219A Upper guide castings (Laird) pair
VL-219B Lower guide, (Laird) Square brass, drilled, tapped, pair
VL-219C Laird Crossheads, pair with piston rods, upper and lower guides, set

VL-126A Special Brass Crosshead pin Hexhead shouldered 0-80 screw, each
VL-127 Return Crank, drilled and tapped with screws, pair
VL-220 Return Crank, drilled and tapped with screws, pair

## Valve Gear Parts

VG-137 Complete Kit
VG-137A Separate parts, each
VG-225 Complete Kit
VG-225A Separate parts, each
VG-144 Valve Gear Hangers
VG-232 Valve Gear Hangers
VG-137B Assembled Valve Gear
VG-225B Assembled Valve Gear



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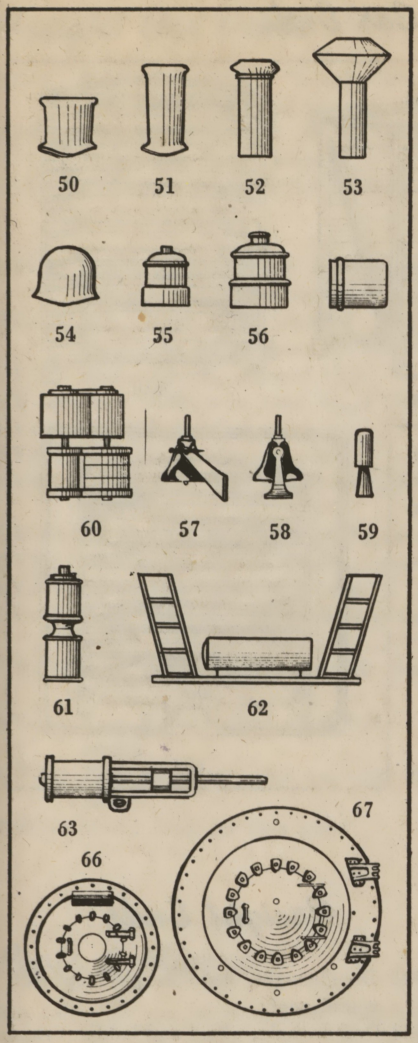



## BIRCH DOWELS

| | | | |
|---|---|---|---|
| 1/16 x 12..doz., | .10 | 3/16 x 36...ea., | .03 |
| 3/32 x 12:.doz., | .10 | 1/4 x 36...ea., | .04 |
| 1/8 x 36...ea., | .03 | 3/8 x 36...ea., | .06 |

**Doweling will be cut into 12" lengths when ordered and shipped by mail.**

## *Mantua Locomotive Parts*

ML-50 Smokestack
ML-51 Smokestack
ML-52 Smokestack
ML-53 Smokestack
ML-54 Domes

| | scale diameter | scale height |
|---|---|---|
| A | 24 inches | 24 inches |
| B | 28 inches | 26 inches |
| C | 36 inches | 15 inches |
| D | 40 inches | 18 inches |
| E | 48 inches | 18 inches |

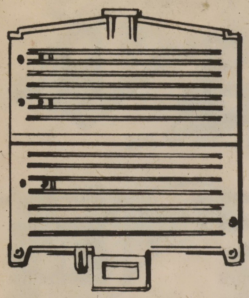
ML-55 Dome with flat bottom
27 inches 36 inches
ML-56 Dome with flat bottom
30 inches 42 inches
ML-57 Bell with angular bracket
ML-58 Bell with straight bracket
ML-59 Whistle, scale height 24 inches
ML-60 Compound Air Pump
ML-61 Single Air Pump, 9 inches
ML-62 Front step unit with Air Tank
ML-63 Reverse Cylinder
ML-64 Generator
ML-65 Angle Valve
ML-66 Boiler Front, scale dia., 60 in.
ML-67 Boiler Front, scale dia., 72 in.
ML-68 Boiler Front, scale dia., 91 in.

## *Sugar Pine*

### 3 FOOT LENGTHS

| | | | |
|---|---|---|---|
| 1/32 x 2 | ... 08 | 1/8 x 1/2 | ... 06 |
| 1/16 x 1/16 | ... 01 | 1/8 x 1 | ... 08 |
| 1/8 x 1/8 | ... 02 | 1/8 x 2 | ... 12 |
| 1/16 x 1/4 | ... 02 | 3/16 x 3/16 | ... 04 |
| 1/16 x 1/2 | ... 04 | 1/4 x 1/4 | ... 04 |
| 1/16 x 1 | ... 06 | 1/4 x 1/2 | ... 08 |
| 1/16 x 2 | ... 08 | 1/4 x 2 | ... 18 |
| 3/32 x 3/32 | ... 02 | 3/8 x 3/8 | ... 08 |
| 1/8 x 1/8 | ... 02 | 3/8 x 1/2 | ... 08 |
| 1/8 x 3/16 | ... 04 | 3/8 x 3/4 | ... 12 |
| 1/8 x 1/4 | ... 04 | 1/2 x 1/2 | ... 10 |

# Freight Car Ends



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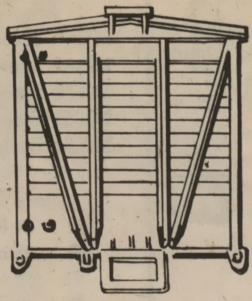

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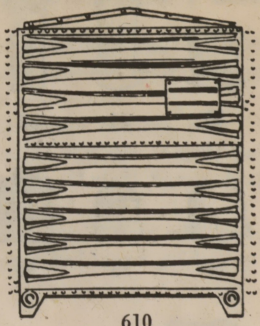
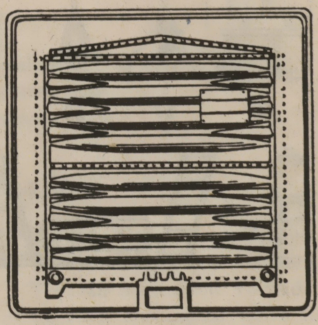


610

HW-552 Dreadnaught ends (die cast) mountings
HW-589 Wood Sheathed (die cast) mountings
HV-609 Stamped Aluminum, pair (short)
HV-610 Stamped Brass, pair (tall)



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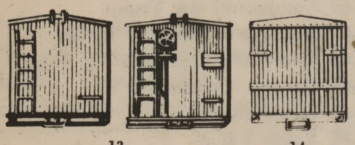

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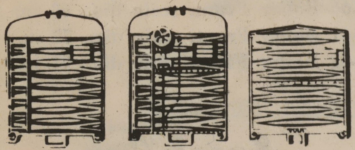

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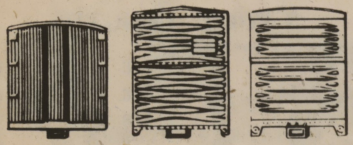

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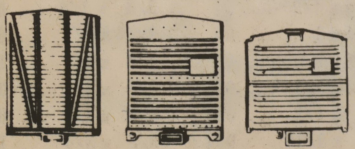


18 19 20

# Freight Ends

HS-12 Dreadnaught, Auto-Murphy top with round roof
HS-13 Dreadnaught, wheel and ladder, round roof
HS-14 Wood Sheathed, wheel and ladder
HS-15 Wood Sheathed, double, for Box or Reefer cars
HS-16 Dreadnaught Auto car
HS-17 Dreadnaught Box car, low type
HS-18 Dreadnaught Auto or Furniture (low type) no marker board
HS-19 Cattle Car
HS-20 Youngstown, corrugated, Auto Car
HS-96 Express Reefer, Sheathed ends

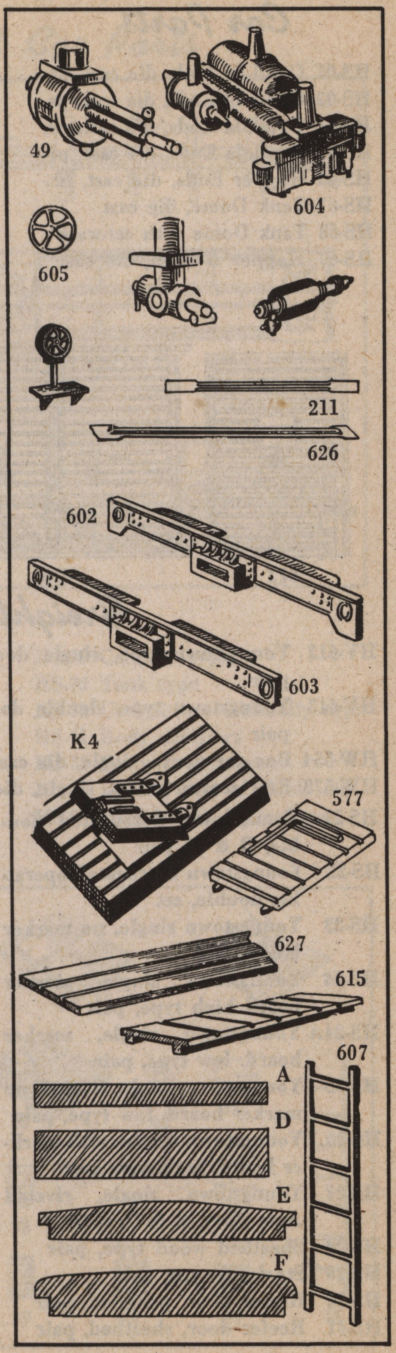


Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.

## Freight Car Parts

HS-49 Westinghouse "AB" Freight brake equipment, cast metal reservoir
HV-604 Westinghouse "AB" set of three, cast Tenite, in one piece
HS-50 Westinghouse Air Brake Cylinder

HW-211 Braces, U shaped for detailing car framing, roof seams, smallest made
HV-626 Brass Roof Ribs, stamped, attach quickly by single clamp on eaves
HV-605 Brake Wheels, stamped brass
HW-180 Door Slides, 4 in. long, set of four
HV-602 End sills, Box car type
HV-603 End sills, Reefer car type
HV-625 Ice Hatches, right or left with hand platforms
HW-555 Ice Hatches, dummy type, die cast
HVK-4 Ice Hatches, Tenite, working cover
HV-607 Ladders not channeled, brass
HV-615 Roof walk end platform, die cast pair
HW-577 Roof corner platform, with grab irons
HV-627 Roof Walk, scribed wood, full length
HW-557 Tank car dome, with cat-walk, die cast
HW-116 Model Pins, for thin wood



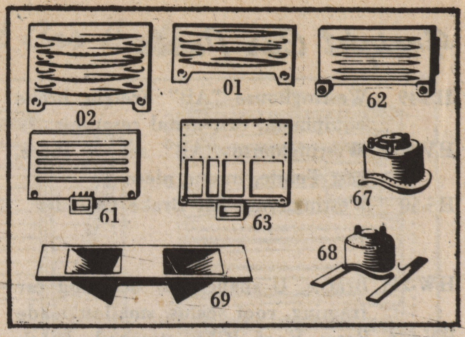

## Roofs & Floors

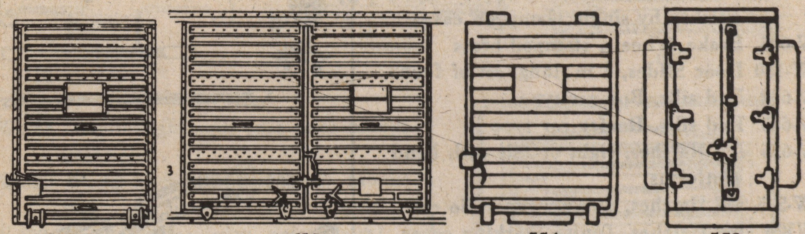
The following are cut from clear California Sugar Pine. The wood is cut into 2-foot lengths for convenience in shipping.

HV-A Floor Stock, 3/32 in. x 1¼ in.
HV-B Floor Stock, ⅛ in. x 1¼ in.
HV-C Floor Stock, ⅛ in. x 1 5/32 in.
HV-D End Stock, ¼ in. x 1¼ in.
HV-E Freight Car Roof
HV-F Round Top Freight roof
HV-G Passenger roof
HV-H Streamliner roof
HV-I Streamliner floor

## Car Parts

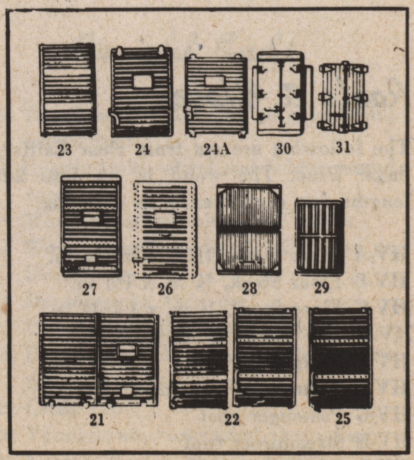
HS-01 Gondola Ends, die cast, pr.
HS-02 Gondola Ends, die cast, pr.
HS-61 Gondola Ends, die cast, pr.
HS-62 Gondola Ends, die cast, pr.
HS-63 Hopper Ends, die cast, pr.
HS-67 Tank Dome, die cast
HS-68 Tank Dome with cat-walk
HS-69 Hopper Bottom, die cast




## Freight Car Doors

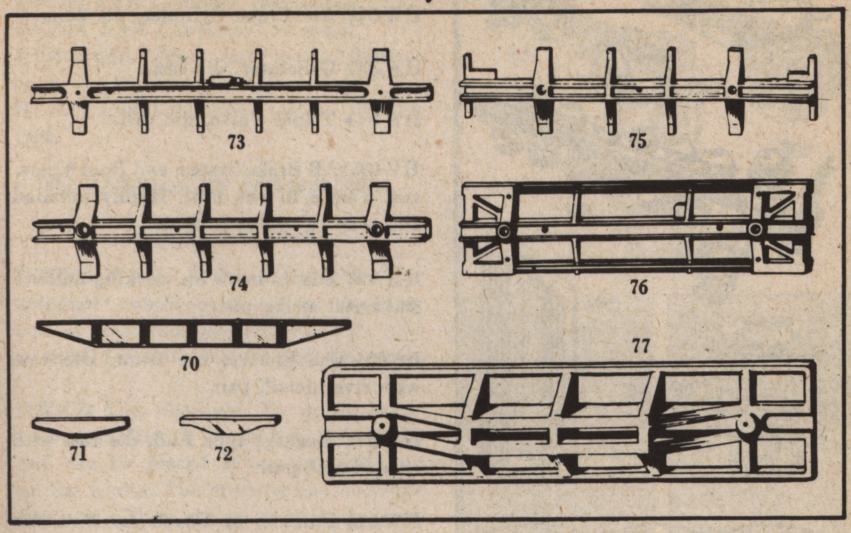
HV-612 Youngstown type, single doors, stamped embossed Aluminum corrugated, pair
HV-613 Youngstown type, double doors, stamped embossed Aluminum corrugated, pair
HW-554 Box car doors, single, die cast, pair
HW-578 Refrigerator doors, single, die cast, pair
HS-21 Youngstown Corrugated double, B & O, pair
HS-22 Youngstown corrugated operating double, set
HS-23 Youngstown single, no marker board, pair
HS-24 Youngstown single, marker board high type, pair
HS-24A Youngstown single, marker board, low type, pair
HS-25 Youngstown single, riveted, no marker board, low type, pair
HS-26 Youngstown single, with marker board, high type, pair
HS-27 Youngstown single, riveted Auto door, B & O, pair
HS-28 Sheathed wood type, pair
HS-29 Stock car type, pair
HS-30 Reefer door, panelled, pair
HS-31 Reefer door, sheathed, pair






Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.

# Die-Cast Freight Car Parts



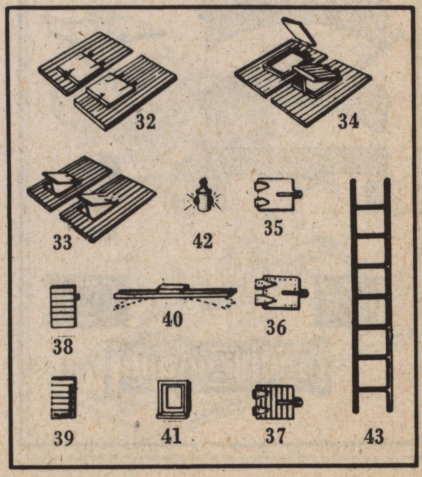

## Underframes

Every part listed is die-cast and is of the finest quality and workmanship; clean, smooth, and without defects.

HS-73 Refrigerator or Box car
HS-74 Box car type
HS-75 Caboose type
HS-76 Tank type
HS-70 Underbeam Fishbelly type
HS-71 Body Bolsters
HS-72 Body Crossbearers
HS-77 Reefer, Box or Tank car
HS-99 Half length Underframe

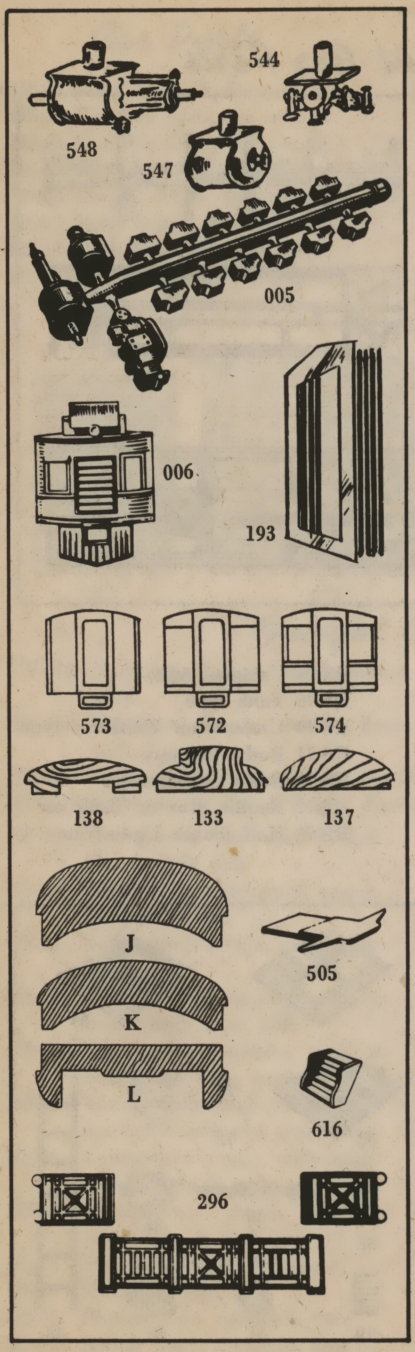
## Ice Hatches & Roof Accessories

HS-32 Hatches with platform, (4)
HS-33 Hatches half open, (4)
HS-34 Operating Hatches, (4)
HS-35 Hatch Covers, plain, (4)
HS-36 Hatch Covers, riveted, (4)
HS-37 Hatch Covers, sheathed, (4)
HS-38 End Platform, pair
HS-39 End Platform with grab rail, (2)
HS-40 Roof Ribs, per dozen
HS-41 Caboose Windows, pair
HS-42 Marker Lights, dummy, pair
HS-43 Ladders, (4)
HS-44 Roof Walk, each






Please Order by Both Name and Number




# Passenger Car Parts

HW-548 Air Brake Cylinder, die cast.

HW-547 Generator, die cast.

HW-544 Triple Valve, die cast.

HV-005 AB Brake System and Roof Vents, cast Tenite in one unit. Highly detailed and true to scale.

HW-193 Diaphrams with working bellows and metal strike plate.

HS-006 Gas Electric car front. Die cast with rivet detail, pair.

HW-572 Baggage type End, die cast with rivet detail, pair.

HW-573 Pullman or Coach car End, die cast with rivet detail, pair.

HW-574 Solarium car Ends, die cast, pair.

HW-658 MU type car End with round windows and all detail, pair.

HW-133 Monitor type Roof, 12" long.

HW-137 Arch (or turtle) Roof, 12" long.

HW-138 Streamline (MU) Roof, 12" long.
HV-J Passenger Roof.
HV-K Streamline Roof.
HV-L Streamline Floor.

HW-135 Pine Flooring for all cars, 12".

HW-505 End Sill (observation or open platform type).

HV-616 Steps, cast Tenite, set of 4.

HW-296 Observation Railing, 3 piece set. Die cast metal highly detailed.



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1, N. Y.

## Couplers

HV-600 AAR Couplers, cast Tenite.
HV-60A AAR Couplers, Cast metal.
HV-601 Old Type, cast metal, dummy type.
HV-61A Couplers, cast metal, dummy type.

## Automatic Couplers and Ramps

HW-105 W. K. Walther's couplers for automatic coupling of cars are the same size as scale dummy couplers. This type is used for both freight and passenger.

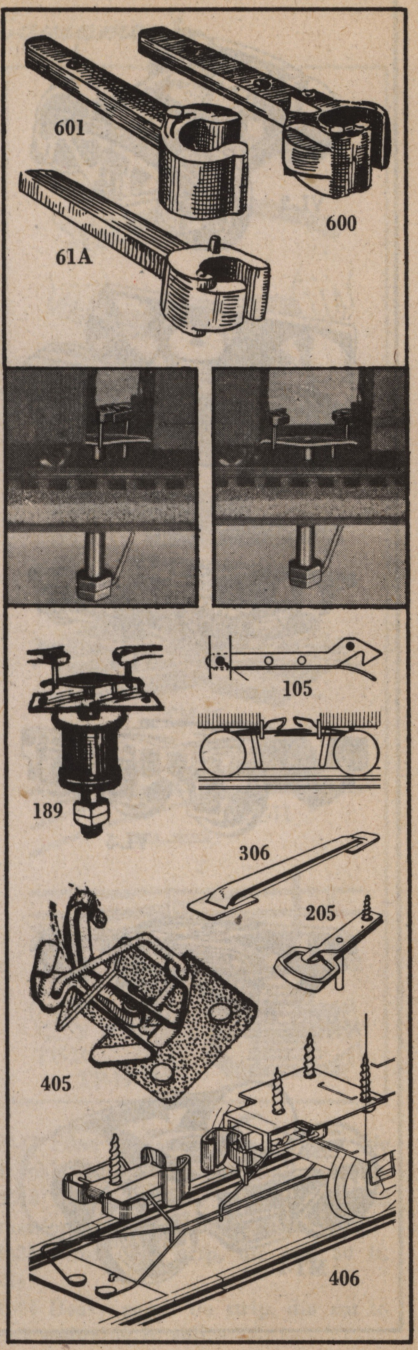
HW-189 The Solenoid Ramp for automatic coupling is controlled electrically and can be placed at any strategic spot on the layout. The operator can uncouple cars while they are in motion, thus permitting tricks such as "slip-switching." The ramp does not interfere with road traffic and is below the level of the rails when not in operation.

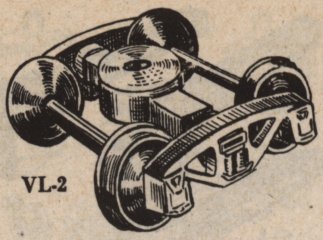
HM-306 The Mantua Ramp for the above freight and passenger automatic couplers is movable to any spot between the rails. The metal pin extending downward from the coupler strikes the ramp and disengages the coupler. The freight coupler is slightly narrower than the passenger type. Both types operate with the same ramp and couple with each other.

HM-205 Freight type couplers.
HM-25A Passenger type couplers.

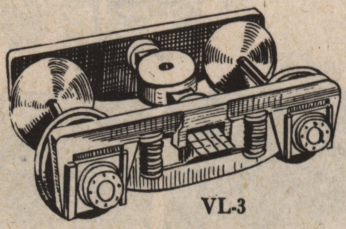
HI-405 Ideal swivel type coupler is mounted in the same manner as are dummy types. This type is designed for use with dummy couplers.

HI-406 The portable Ramp as shown in the illustration can be moved to any spot between the rails on the layout. It is made of spring wire and is firmly mounted on insulated base.





VL-2

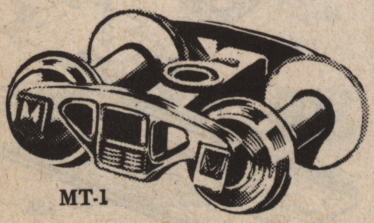


VL-3

VL-4

VL-5

VL-6



MT-1

## "HO" Trucks

Mantua Freight Trucks are designed for heavy freight service. The weight in construction, and free rolling wheels and detail of side frames are characteristic of a Mantua product.

MT-1 Freight, Bettendorf 4-wheel, pair.

Varney Trucks are the standard of comparison in "HO" gauge. Each truck has the special needle pin point bearing and special bolster to permit coupling without removing cars from the track. The side frames are die-cast and highly detailed. Tenite wheels assure smooth performance and conform to standard "HO" specifications.

VL-2 Freight, Standard 4-wheel, per pair.

VL-3 Passenger, Standard 4-wheel, per pair.

VL-4 Pullman, Standard 6-wheel, per pair.

VL-5 Passenger, Commonwealth 6-wheel, for coaches, locomotive tenders or heavy mill type gondolas, drop flats, etc.

W. K. Walther's trucks have pressure die-cast side frames and bolsters. The Tenite cast wheels are true to "HO" scale and are pressed on to steel axle. The side frames are soldered to the bolster and form a sturdy one piece truck.

WT-370 Freight, Bettendorf 4-wheel, pr.

WT-371 Passenger, Standard 6-wheel, pr.

WT-372 Passenger, Standard 4-wheel, pr.

## Tender Trucks

WT-512 Walther's Tender Trucks, Commonwealth, 6-wheel, die-cast frames.

VL-6 Varney Tender Trucks, Commonwealth, 6-wheel, 100 inch wheel base model.

MT-7 Mantua Tender Trucks, 4-wheel, die-cast side frames and stamped metal bolster.



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.

# HO & OO Track Equipment

Mantua "Ready-Laid" Track for two rail. Brass rails are mounted on fiber ties and clipped into position to retain the exact gauge. Spikes may be used for permanent layouts. Curved sections are flexible to permit a curve of any radius while retaining the same gauge.

TM-1 Mantua Track Kit, 4 ft. circle
TM-2 Mantua Track Kit, 4 x 7 ft. loop
TM-3 Mantua Track Kit, 6 x 10 ft. loop
TM-4 Straight sections, 18 in. ea.
TM-5 Curved sections, 18 in. ea.

Mantua "Ready-Laid" Switches, fully insulated for two rail. Rails are mounted on fiber ties to form a complete switch unit. These are in the exact scale to No. 6 switch.

TM-6 Mantua right switch, No. 6
TM-7 Mantua left switch, No. 6

Completely assembled switches mounted on tie strip, fully insulated with No. 6 frog. Brass rails in exact scale and soldered joints. These switches form a perfect crossing when placed back to back.

Brass rail "Ys" follow same specifications.

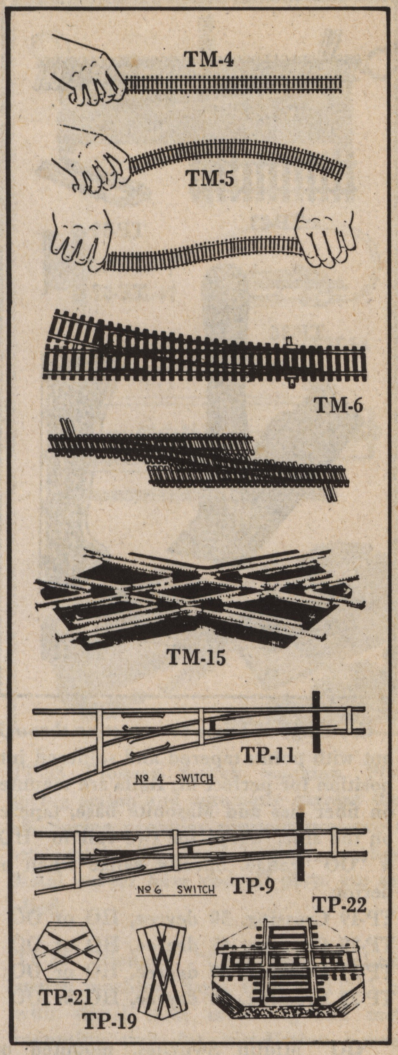
TP-8 Right hand switch, No. 6
TP-9 Left hand switch, No. 6
TP-10 Right hand switch, No. 4
TP-11 Left hand switch, No. 4
TP-12 "Y" section

"High Steel" Switches conforming to A. C. Gilbert standards. Insulated and set to gauge with No. 4 frogs. Rails are carefully ground to fit points.

TP-13 Right hand switch, No. 6
TP-14 Left hand switch, No. 6

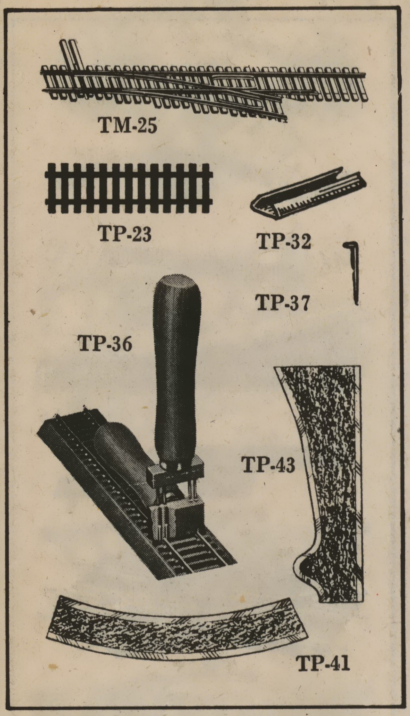
Midlin Crossings are made of oxidized brass rail with Catalin plastic base. The rails are fully insulated for two rail operation. Holes are drilled in base for permanent mounting.

TM-15 Midlin Crossing, 45 degree
TM-16 Midlin Crossing, 90 degree




TP-17 Fiber Tie strips for switches. Die cut with width allowance for all switches.
TP-18 Wood Ties for switches, stained precision cut, 12 in. long, 12 per pkg.
TP-23 Fiber, Tie strip, die cut, 50 ft. rolls
TP-24 Heavy paper tie strip, die cut to exact width, 50 ft. roll.

# HO & OO Track Equipment




Crossings of brass construction throughout with points tapered and soldered into position for perfect fit. Rails are mounted on fiber ties and Masonite base, tapered on the side. Wired for two rail in "HO" & "OO" gauge. Specify gauge when ordering.

TP-19 Crossing, 30 degree, HO or OO
TP-20 Crossing, 45 degree, HO or OO
TP-21 Crossing, 60 degree, HO or OO
TP-22 Crossing, 90 degree, HO or OO

"OO" Midlin Switches, mounted on wood ties have a No. 6 frog. Rails are oxidized brass with points mounted in correct position, ready for operation.

TM-25 Midlin Switch, right, No. 6
TM-26 Midlin Switch, left, No. 6

TP-39 "OO" Steel Rail, NMRA standard scale. 3 ft. lengths, shipped in units of 99 ft. See above notes for shipments.

"OO" Model Craft Hobby Products Switches are fully assembled and insulated with points attached. Rail joints are soldered into exact gauge.

TP-27 "OO" MCHP Switch, right, No. 6
TP-28 "OO" MCHP Switch, left, No. 6

"OO" Mantua Track in 18 in. sections, fully insulated on fiber tie strip in exact gauge. Rails are soldered with brass bands to assure correct gauge.

TM-29 Mantua 18 in. straight section
TM-30 Mantua curved section

TP-31 "OO" Wood Ties, precision cut and stained, 500 per carton.

TP-32 "OO" Fishplates, brass, doz.

TW-33 Walthers "HO" Track Gauge, die cast white metal with steel track guides for perfect gauging. Ideal for laying curved tracks.

TF-34 "OO" Track Gauge made of turned half round brass.

TP-35 Frogs for "HO" No. 6 switches made of cast bronze for perfection.

TP-36 Track Layer. Automatically drives four spikes at one time with accuracy. The handles are wood turned to fit the hand, and are mounted on brass driving head and guide. Steel pins drive spikes in one easy blow.

TP-37 Spikes for use with Track Layer are realistic in appearance and are shipped in ⅛ lb. boxes.

TP-38 Steel Rail, special "High TYPE." Same height as used by A. C. Gilbert. 3 ft. lengths are shipped in units of 99 ft.

Rail cannot be shipped via parcel post. Express shipments, charges collect only.



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.

# HO & OO Track Equipment

"HO" Masonite Roadbed Board. Soundproof base for track, cut to single track width with beveled sides. A practical base to which rails are easily spiked. Complete circles.

TP-40 Masonite straight section, 36 in. long ea.
TP-41 Masonite 34 in. radius circle
TP-41A Masonite 24 in. radius circle
TP-42 Masonite 36 in. radius circle
TP-42A Masonite 26 in. radius circle
TP-43 Masonite Switch base, "HO" & "OO", cut to shape. Specify left or right.

TP-44 Ballast for track roadbed, 1 lb.

TP-45 Cement for Ballast, quick drying in powder form, 1 lb.

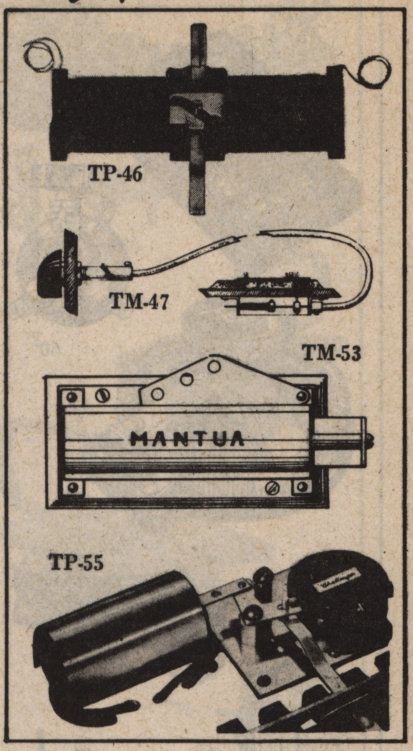
TP-46 Electra Switch Machine. Twin solenoid type with full throw and locking positions. 6 to 30 vlts. AC or DC current, suitable for all gauges. Die cast metal frame ready for mounting.

TM-47 Midlin switch machine. A manual positive acting control for any distance to 20 ft. Built on the same principle as an auto choke. Cable in several lengths. Specify length when ordering. Fits any control panel.
TM-48 Control Cable, 3 ft.
TM-49 Control Cable, 6 ft.
TM-50 Control Cable, 9 ft.
TM-51 Control Cable, 12 ft.

TW-52 Walthers twin solenoid electric switch machine. Self locking, 6 to 18 vlts. DC current.

TM-53 Mantua Electric Switch machine. Suitable for any gauge. Operates on AC or DC current, 6 to 24 vlts.

TM-54 Mantua Spring for switch machine control. Formed spring steel for constant smooth operation.

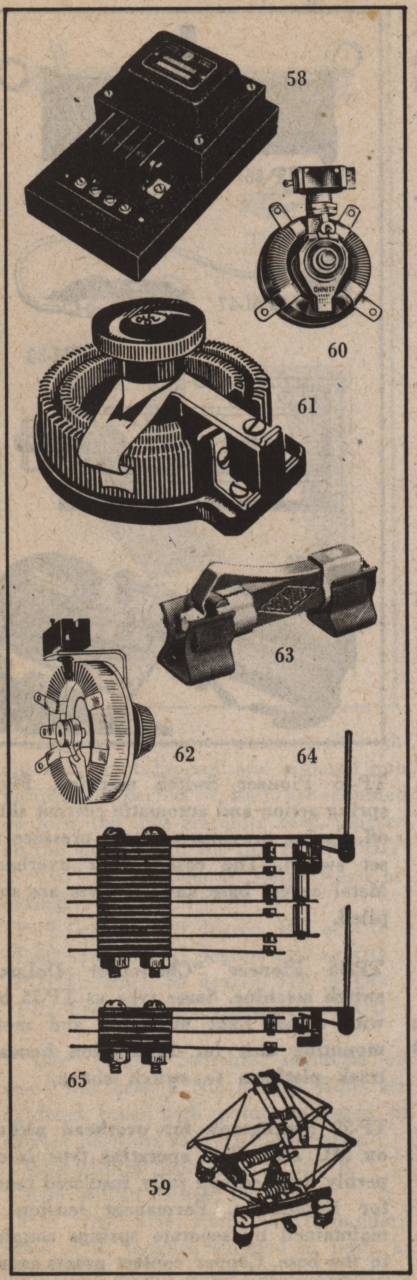



TP-55 Pioneer Switch machine, Pivot spring action and automatic current shut-off. Spring provides constant pressure to set switch. The coil cannot overheat. Metal covers base and all parts are supplied.

TP-56 Pioneer "Challenger DeLuxe" switch machine. Same type as TP-55 but with signal light mounting and metal mounting unit for installation beneath track platform to switch above.

TP-59 Pantograph for overhead pickup on MU cars. This operating type is superbly detailed and fully insulated ready for installation. Permanent tension is maintained by separate springs coupled to the base. Copper contact points assure positive electrical pickup.

# Power Equipment & Operating Supplies




Polk's Power-Pak. A heavy duty 6 vlt. DC current power supply unit that will operate up to 4 trains. Designed especially for "HO" and "OO" gauge. This unit reduces 110 AC current and converts to 6 vlts. DC.

TP-57 Power-Pak, U100, 1 to 2 trains
TP-58 Power-Pak, U200, 2 to 4 trains

TO-60 Ohmite Rheostat for "HO" with toggle switch attached. A simplified speed and directional control for stopping and reversing trains.

TP-61 Filament Rheostat for panel or table mounting. A double field, full control from easy start to stop. Constructed with heavy base, wiring outlets fully insulated with complete diagrams for operation. 50 Watt-8.2 Ohm, or 25 Watt-18 Ohm.

TV-62 Varney Loco-Controller. A heavy two-way rheostat with double directional control. Complete with attached toggle switch and instructions for panel mounting. 3-5-7-10 ampere.

TV-63 Automatic Circuit Breaker. An insulated current resistor breaker that prevents overheating when shorts appear in circuits.

Pioneer Relay Conversion unit. Ideal for use with Pioneer Switch machines for signal blocking. Either unit is designed for multiple control of units attached through switches.

TP-64 Pioneer 3-Blade Conversion unit
TP-65 Pioneer 8-Blade Conversion unit

TP-66 Electra Contact set. A perfect set designed for operation with the Electra Switch machine for controlling blocks and right-of-way equipment. A 3-blade set complete with wiring instructions.

## Operating Supplies

Toggle Switches. Ideal for mounting in banks on panel board. A simple control for electrical current.
TP-67 Single pole, single throw, or on and off switch
TP-68 Double pole, double throw, for changing polarity

Knife Switches. An insulated current control for signals, switches or lighting equipment.

TP-69 Single pole, single throw
TP-70 Single pole, double throw
TP-71 Double pole, double throw

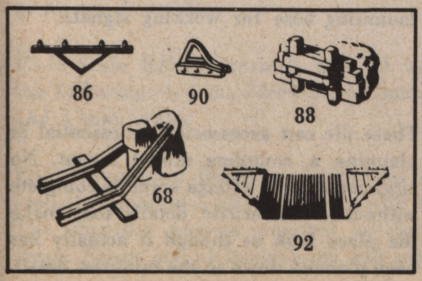
TP-72 Alligator Clips for testing and temporary contacts. Spring type with good grip and soldering lug to which wire may be attached.

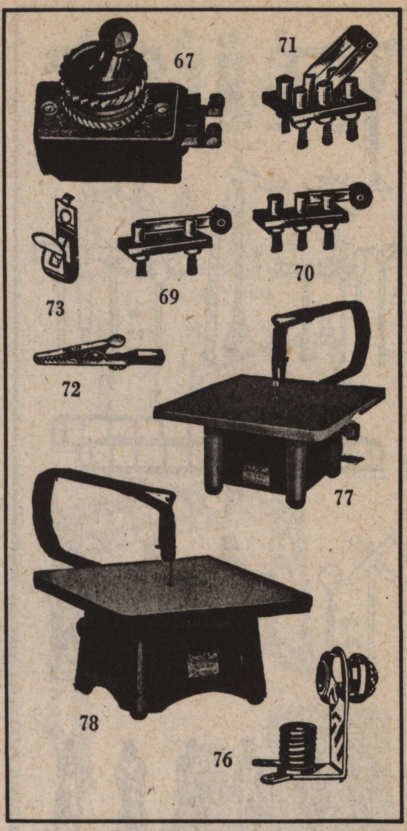
TP-73 Spring Binding Post. A clip for holding wire end to form contact.

Pilot Lamp with bulb socket attached. Colored cut glass reflectors are easy to mount to panel as control indicators.

TP-74 Green Reflector
TP-75 Yellow Reflector
TP-76 Red Reflector

TS-77 Syncro Saw for detail and precision cutting. Ample power to cut ¾ in. wood, thin metal, or plastics. Cast iron base with integral table plate.




TS-78 Syncro DeLuxe Saw with greater table clearance (16 in.) and cutting ability. Heavy construction throughout.

TS-79 Syncro Blades for all saws in a package containing 6 blades.

## Wayside Accessories

HS-86 Crossarms for telegraph poles, die-cast, per dozen
HS-88 Sand Bumper, die-cast track end
HS-89 Track end stop and post, die cast
HS-90 Car Stops, pair
HS-92 Cattle Crossing, die-cast, three piece set

## Wayside Accessories.

Selly Railroad Accessories are made of die cast white metal. Detail and exactness of scale add realism to every model layout. All accessories are unpainted.

SS-82 Car with Passenger
SS-83 Car without Passenger
SS-84 Water Column
SS-112 Switch Stand with dummy lights
SS-103 Semaphore, dummy type
SS-93 "Right of Way" Marker set
SS-94 "Right of Way" Marker set
SS-95 Stop and Crossing Signal

SS-105 Bridge Girders, highly detailed for realism along road crossings and overhead passes for double or single tracks.

## Wayside Figures

All die cast figures are grouped in sets of 6 figures except SS-81 which has 3. The detail gives true to life action to each figure which may be colored in contrast to the setting of each figure.

SS-61 Sitting Engineer and crew
SS-62 Passengers with metal base
SS-63 Passengers without base
SS-64 Train Crew and Laborers
SS-65 Horse, Cow and Hog set

SS-91 Signal Bridge for double track. This unit is detailed and adaptable for any layout in "HO" and surely adds realism as well as forming a usable mounting base for working signals.

These die cast accessories are essential in planning a complete model layout. No city, country, or village scene is complete without characteristic details that make the place look as though it actually has been planned down to the minutest detail.



Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.

# *Wayside Accessories*

SS-66 Station Crew with metal base
SS-67 Passengers with metal base
SS-68 Train Crew and Repairmen

PS-69 Ballast Gravel. Washed ballast carefully graded and colored gray for model railroads.

PS-70 Imitation Grass. Excellent for scenic effects. May be applied loosely or permanently dusted on fresh glue.

PS-71 Imitation Earth. Just the right color for roads and fields of brown.

PS-72 Imitation Snow for scenic winter effects. Specially treated to sparkle.

PS-73 Imitation Hedge made of real sponge rubber, and colored a natural green. 3 foot strips.

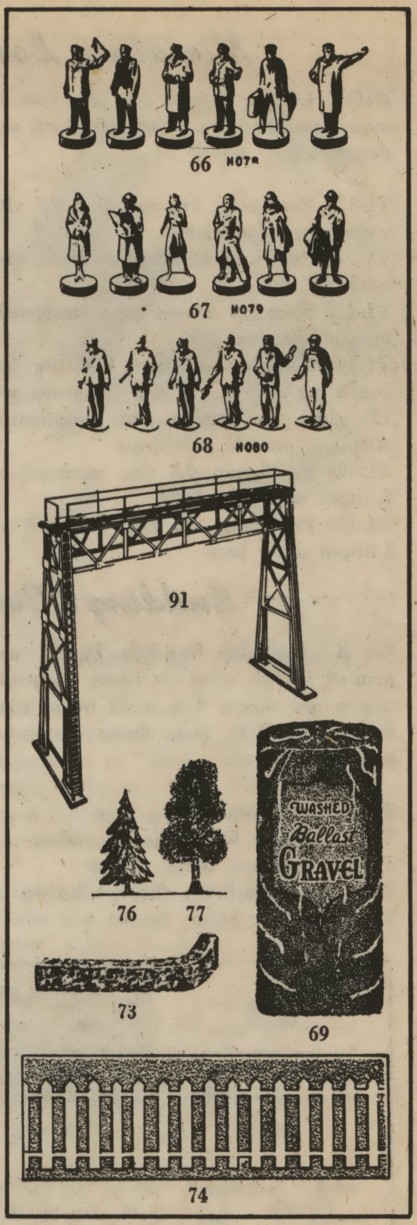
PS-74 Picket Fence. A clear white fiber die cut in rolls, per foot.

PS-75 Scale Miniature Trees made of Lichen Moss and Fiber Moss. Each tree can be trimmed to desired shape. Colored in natural shades of green, 30 trees per box.

PS-76 Pine Trees made of Fiber Moss that has a natural appearance. A sturdy trunk provides easy mounting to base.

PS-77 Oak Trees made of Lichen Moss used for true scale miniature trees by architects everywhere.

PS-78 Scale Ruler accurately marked in the following: 1/4 in., 17/64 in., 3.5 mm. and 4 mm. scale.




PS-79 Green-lawn Imitation Grass. The texture of this new scenic substance has the realistic appearance of a soft lawn with the many tones of green and depth of color. The fiber-like grass is mounted on cloth that may be cut to any desired size or shape. Sheets are 54 inches wide and sold by the yard.

# Miniature Lamps and Sockets

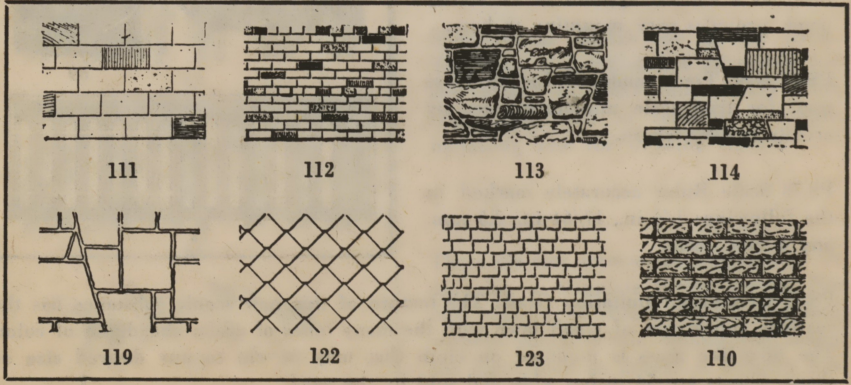
Helios Lilliput Lamps for all types of model constructions, charts, displays, and decorations.

TL-120 Pea Lamp, 5½ mm. dia., 2.5 vlts. with pigtail end wires
TL-121 Pea Lamp mounted on 21 in. wire cord, 2.5 vlts.
TL-122 Same as above with miniature base connecting plug
TL-123 Complete Lilliput Lighting Kit consisting of Nos. 121 red, 121 green and 122 clear, for wiring and illuminating Airplane models and ships
TL-124 Pea Lamp, 2.5 vlts. mounted on Lilliput screw base
TL-125 Pea Lamp, 18 vlts. mounted on Lilliput screw base
TL-126 Pea Lamp, 12 vlts. mounted on Lilliput screw base
TL-127 Lilliput Socket with 5 ft. wire cord used for Nos. 124, 125, 126
TL-128 Lilliput Socket without cord
TL-129 Smallest Bulb in 12 or 18 vlts. on miniature screw base
TL-130 Doll House Lamp, round, 24 vlts. on miniature screw base
TL-131 Shell Socket for miniature base lamps
TL-132 Specially thin 2 strand wire flexible cord used in Nos. 121, 122, and 127, per foot
TL-133 Pea Lamp, 6 vlts. mounted on Lilliput screw base
TL-134 Miniature Base connecting Plug with 38 in. length of 2 strand cord

# Building & Construction Paper

W. K. Walthers Building Papers are printed in full color on heavy construction paper sheets, 9 in. x 12 in. in size. Scaled for "HO", these sheets are architecturally correct.

TW-110 Concrete Blocks, gray
TW-111 Ashlar Stone Blocks, yellow
TW-112 Common Brick, yellow
TW-113 Rubble Stone (heavy), brown
TW-114 Ashlar Stone, brown
TW-115 Ashlar Stone, gray
TW-116 Wood Siding, gray
TW-117 Common Brick, red
TW-118 Doors and Windows, white
TW-119 Flagstones (large), gray
TW-120 Brick Corners, yellow
TW-121 Brick Corners, red
TW-122 Slate Shingles, gray
TW-123 Wood Shingles, green
TW-124 Complete Ass. (14 kinds)






Polk's Model Craft Hobbies, 314 5th Ave., N. Y.1,N. Y.

# Precision Shapes

3 FOOT LENGTH PRICE

**ANGLES**

1/16 x 1/16 .... 06
3/32 x 3/32 .... 06
1/8 x 1/8 ..... 06
5/32 x 5/32 .... 06
3/16 x 3/16 .... 06
1/4 x 1/4 ..... 09
5/16 x 5/16 .... 09
3/8 x 3/8 ..... 09

**I BEAMS**

3/32 x 3/64 .... 06
1/8 x 1/16 .... 06
5/32 x 1/16 .... 06
3/16 x 3/32 .... 08
1/4 x 3/32 .... 08
5/16 x 1/8 ..... 09
3/8 x 1/8 ..... 09

**COLUMNS**

1/16 x 1/16 .... 06
3/32 x 3/32 .... 06
1/8 x 1/8 ..... 06
5/32 x 5/32 .... 08
3/16 x 3/16 .... 08
1/4 x 1/4 ..... 09
5/16 x 5/16 .... 09
3/8 x 3/8 ..... 12

**CHANNEL**

3/32 x 3/64 .... 06
1/8 x 1/16 .... 06
5/32 x 3/32 .... 06
3/16 x 3/32 .... 06
1/4 x 1/8 ..... 06
5/16 x 1/8 ..... 09
3/8 x 5/32 .... 09
7/16 x 3/16 .... 12
1/2 x 1/4 ..... 12

**TEES**

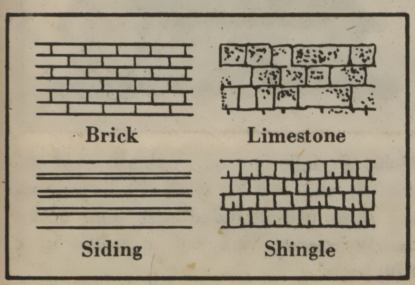
1/16 x 1/16 .... 06
3/32 x 3/32 .... 06
1/8 x 1/8 ..... 06
5/32 x 5/32 .... 09
3/16 x 3/16 .... 09
1/4 x 1/4 ..... 12
5/16 x 5/16 .... 12

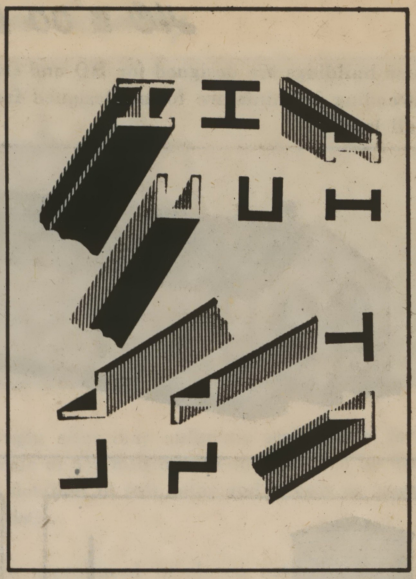
**ZEES**

1/16 x 1/16 .... 06
3/32 x 3/32 .... 06
1/8 x 1/8 ..... 06
5/32 x 5/32 .... 06
3/16 x 3/16 .... 09
1/4 x 1/4 ..... 09
5/16 x 5/16 .... 12
3/8 x 3/8 ..... 12

**EL'S**

1/16 x 1/8 ..... 06
3/32 x 1/4 ..... 06
1/8 x 3/8 ..... 06



# Building Material

Skyline Construction Paper and Board is scaled in full color for realistic model structures in "HO". The size of each sheet is 7½ in. x 17 in. The board can be used for construction without additional mounting for support.

**CONSTRUCTION BOARD**

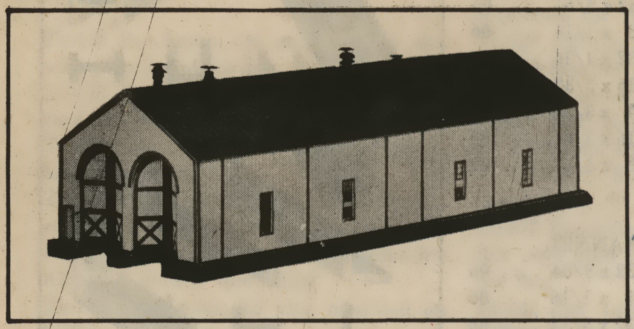
TS-90 Red Brick
TS-91 Yellow Brick
TS-92 Field Stone
TS-93 Limestone
TS-94 Green Shingle
TS-95 Brown Shingle
TS-96 White Clapboard
TS-97 Yellow Clapboard
TS-98 Yellow Siding

**CONSTRUCTION PAPER**

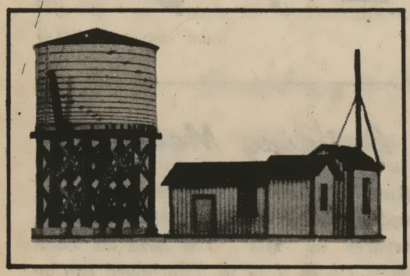
TS-101 Red Brick
TS-102 Yellow Brick
TS-103 Field Stone
TS-104 Limestone
TS-105 Green Shingle
TS-106 Brown Shingle

# HO & OO Buildings

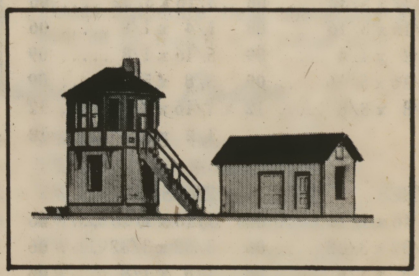
These buildings are designed for HO and OO railroaders and have the real flavor of railroading in miniature form. Designed from railroad plans with detail that adds to all layouts.



SS-654 Engine House. Designed from P.R.R. plans with room for two tracks. Hinged doors and structural detail clearly printed. Size: 6⅛ in. x 17¼ in. x 5⅜ in. high.

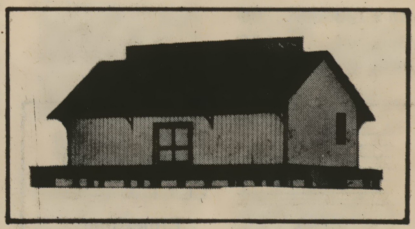


SS-651 Water Tower, Steam Plant, Mixing Plant, and Pump House. A colorful group with real detail. Tank comes with metal spout. Size: 6⅜ in. x 10¾ in. x 5⅞ in. high.



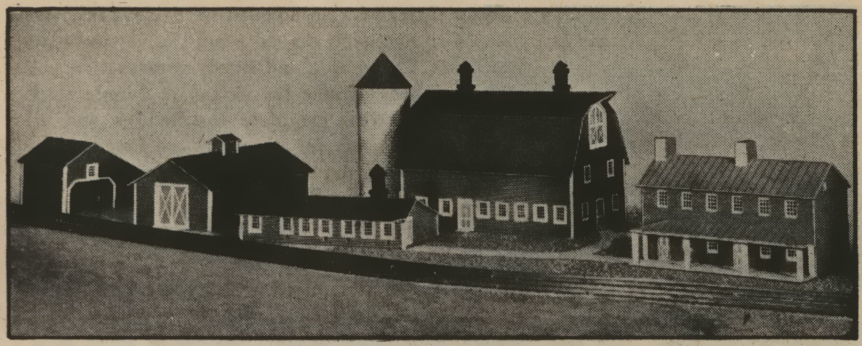
SS-650 Interlocking Tower and Signal maintainer's Tool House. Outside stairway and overhanging bay window add realistic detail. Choice of 4 sets of call letters in every kit. Size: 4½ in. x 8 in. x 4¾ in. high.

SS-652 Passenger Station. Designed from P.R.R. blueprints showing decorative detail. Choice of 4 sets of name-boards in every kit. Size: 6⅜ in. x 10¾ in. x 4 in. high.



SS-653 Freight Station. A small town station of the P.R.R. type. Underpinning and steps are included with sign board clearly lettered. Size: 6⅜ in. x 10¾ in. x 4 in. high.

# HO Skyline Scenery

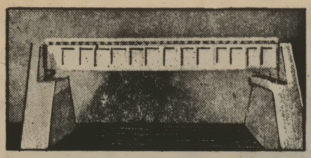


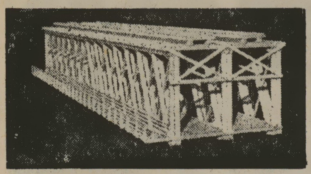
SS-661 Nothing has been more eagerly sought after than authentic scale model farm buildings. The buildings are in the exact scale of 3½ millimeters and can also be used for all gauges. Each building, six in all, is detailed in full color and is easy to assemble, sturdy in construction, and truly realistic.

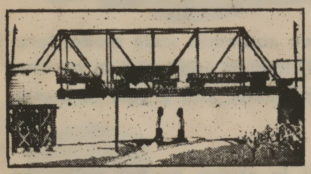
The scenery backgrounds listed below are reproduced in eleven natural colors on heavy paper suitable for mounting on any surface. Each can be arranged with any other to form a continuous background. The perspective as shown in each will add depth and color to your layout. Size of each: 2 x 6 ft.

SS-700 Mountain Background
SS-701 Village Background
SS-702 Farm Background
SS-703 City Background

Backgrounds can be best used when the scenery directly in front of it is properly planned. Depth of perspective can be gained by placing the smaller buildings and accessories nearest the background. This permits railroad type of structure to be in its proper place and nearer the point of view of the spectators.







These bridge kits are constructed from full size plans with precision shaped wood that is cut to the exact size. The simple and sturdy construction will withstand heavy traffic for single or double stack layouts. Kits with complete instructions and all necessary materials for assembly are listed below in consecutive order from top to bottom as illustrated.

B & O Plate Girder Bridge

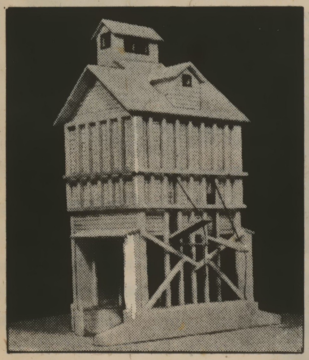
SB-G1 Complete kit, less abutments
SB-G1a Finished Abutments per pair

B & O Howe Truss Span

SB-H1 Single track span
SB-H2 Double track span
SB-A1A Abutment kit single track
SB-H2A Abutment kit double track

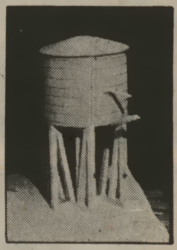
Pratt Truss Bridges

SB-P1 Complete kit 19¼ in. long (HO)
SB-P2 Complete kit 22¼ in. long (OO)

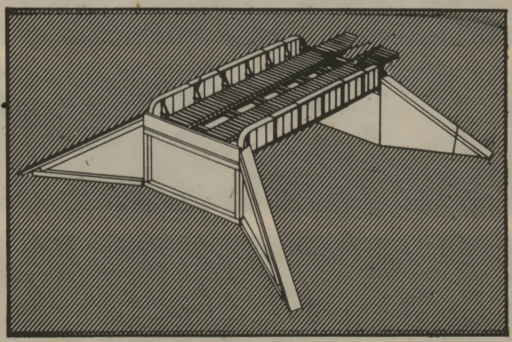


SM-2 Timber style Coaling Station. Over 100 pieces of wood ready to assemble. Highly detailed as shown in illustration.

SM-1 Water Tower kit. Tank is made of solid wood. Spout will raise or lower. Complete plans with all hardware, cement and hard ware included. Turned wood cone shaped for roof. Rigid in construction and detail is complete in every kit.



SC-17 A typical highway crossing bridge, double track. The accurately embossed girder sides show rivets and all detail. This bridge may easily be modified to a single track as indicated on full size plans. The kit is complete with construction of heavy plywood to handle extra loads. Finished plywood parts make this kit easy to assemble.





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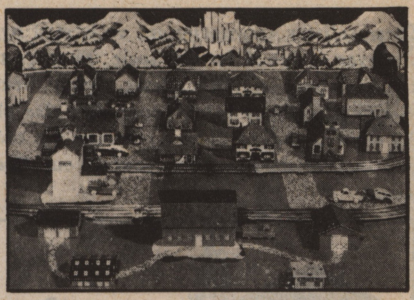
# HO Buildings & Scenery

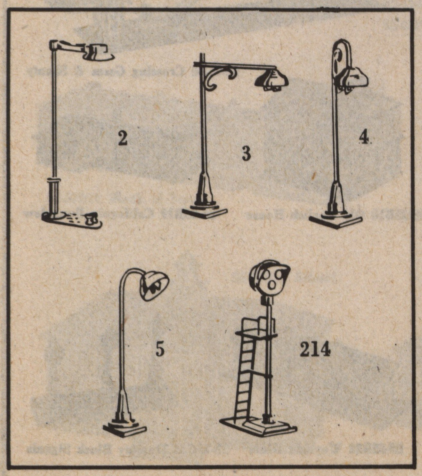
SP-50 Farm and Village combination. This group includes a complete 7 piece Farm, 12 Village Buildings, and 60 in. of full color scenic background. The entire set is made of heavy construction board with easy to assemble instructions by patented method. The Village, Farm, or Background may be ordered separately as listed below.



SP-52 Background in above illustration in full color, consisting of three units, each 20 in. in length. This detailed set is in proper perspective to add depth to any layout. Scaled for all gauges.

SP-57 Farm set with 7 separate Buildings, each of which is printed in full color and shows detail of construction. Set contains Country Elevator, and House, Farm House, Barn, Hog House, Chicken House, Tool Shed and Granary.

SP-56 A Complete miniature Village consisting of a large Business Building, a Church, a Fire Station, a Drug Store, a Union Station, and 6 residential Homes. Complete with instructions for assembly.




## Lamps and Signals

PM-2 Polk's Lamp for yard, station, depot and street scenes. A heavy die-cast base lamp with socket in reflector and fully wired and insulated for 6 volt bulb.

PM-3 Lamp with extended reflector arm for use over tracks and platforms. Wired, insulated, painted brown. Helios bulb included.

PM-4 Lamp for residential and city scenes fully wired and insulated for Helios bulbs included. Lamp is painted blue.

PM-5 Lamp with angle reflector painted white on inside, fully wired for Helios bulb.

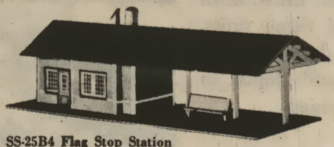
Signal Assembly Kit. All necessary parts supplied with wiring plans and bulbs. The surgical bulbs have life for 500 hours when operated on 2 volts.

PW-213 Two-color Signal assembly Kit

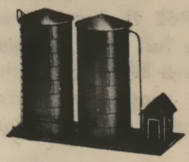
PW-214 Tri-color Signal assembly Kit

# HO Buildings

**These railway accessories are acclaimed by builders everywhere as the most practical kits ever designed for this scale. They go together in surprisingly little time. IDEAL kits are complete with strong, die-cut boards printed in realistic colors. Cellophane windows, chimney brick paper, full size plans with easy to follow instructions make the construction of these a pleasure. No tools are required to assemble them and they give that finished touch to your layout. Order them in groups that will build up your layout.**



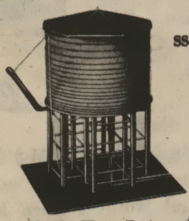
SS-25B4 Flag Stop Station



SS-25B12 Oil Storage Depot

SS-25B2 Interlocking Tower

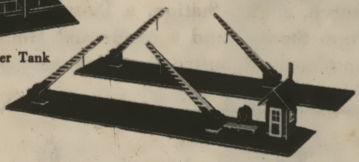
SS-25B3 Suburban Station



SS-25B5 Water Tank

SS-25B14 Two Story Brick House

SS25B11 Freight Station



SS-25B6 Crossing Gates & Shanty

SS-25B17 New England Mansion

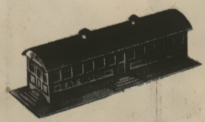
SS-50B28 Farm House

SS-25B18 Old English House

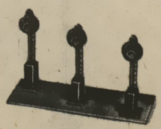
SS-25B19 California Bungalow

SS-25B20 Frame House

SS-25B21 GAS Station



SS-25B22 Wayside Diner



SS-25B23 Dummy Block Signals



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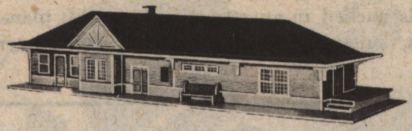
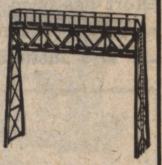
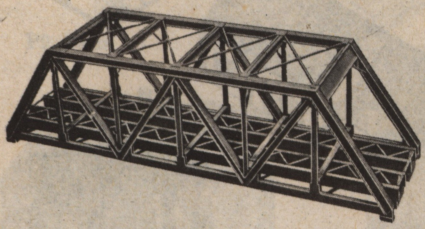
# HO Buildings



SS-50B1 Combination Station

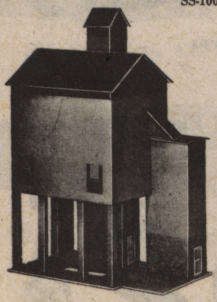
SS-25B24 Signal Bridge (2 bridge)



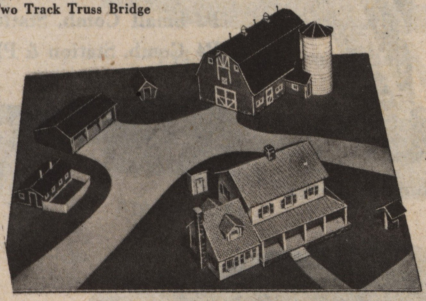


SS-100B26 Two Track Truss Bridge

SS-50B10 Church

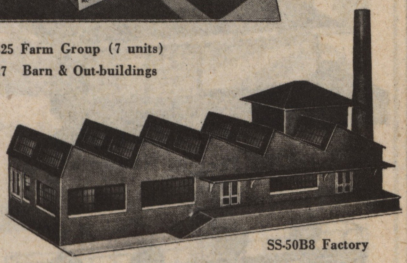


SS-50B9 Coaling Station



SS-100B25 Farm Group (7 units)
SS-50B27 Barn & Out-buildings

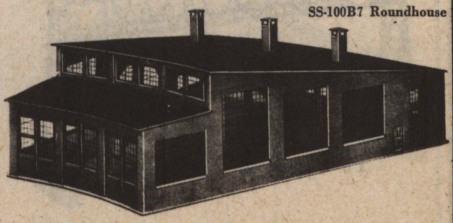
SS-50B15 Block of Stores



SS-50B8 Factory

SS-50B16 School

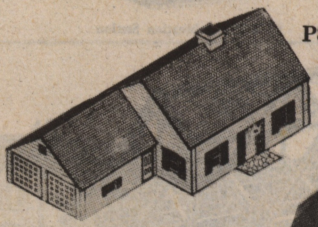
SS-100B7 Roundhouse



# HO Buildings

**These new Megow building are designed to add new interest and detail in the development of the model railroad layout. The kits are made of strong cardboard that is die-cut and printed in many colors. No material that is essential to the war effort has been incorporated. Each kit is packed in an attractive box with plans for assembly. Printed translucent windows, suitable for use with a lighted interior, are also included.**

P1 Watchman's Tower



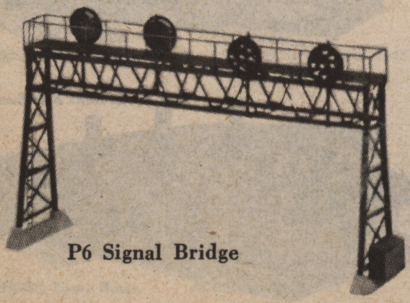
P8 Cape Cod Cottage

P3 Small Comb. Station
P4 Comb. Station & Platform

P7 Plate Girder Bridge

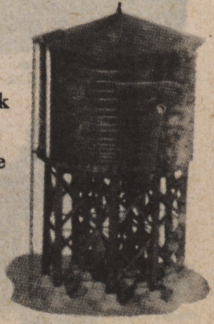
P2 Freight House

P11 Corn Crib,
Wind Mill, etc.



P6 Signal Bridge

P5 Water Tank
&
Pump House





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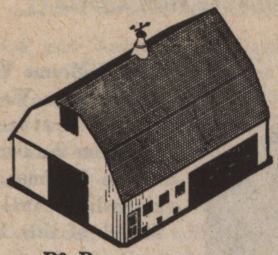
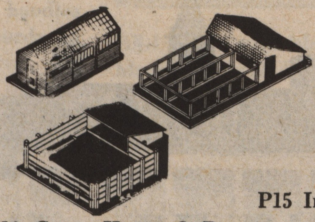
# HO Buildings

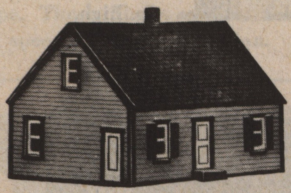


P9 Barn

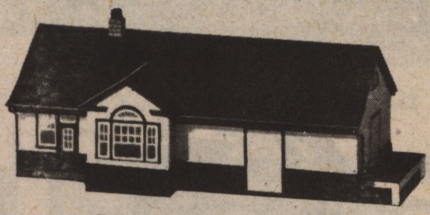


P10 Green House & Pens

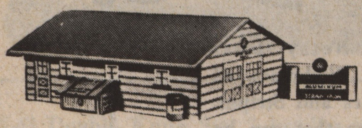
P15 Interlocking Tower



P12 Suburban Cottage



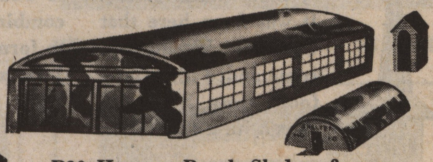
P14 Combination Station



P17 Air Raid Headquarters

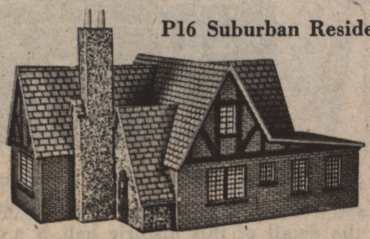
P19 Barracks

P13 Freight Station



P20 Hangar, Bomb Shelter & Guard House

P16 Suburban Residence

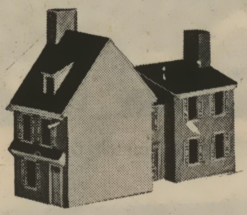


P18 Fire House

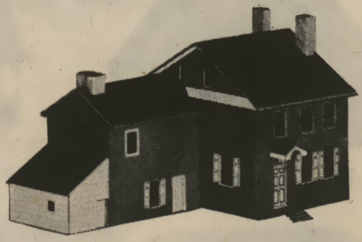
## *Skyline Buildings*

**The famous Hall of Fame series. Full color detailed reproduction on heavy construction material. Realism for every layout.**

**SS-657 Mount Vernon. George Washington's stately home on the banks of the Potomac. A realistic detailed model of this historic place. Size: 13 in. x 7½ in. x 7 in. high.**

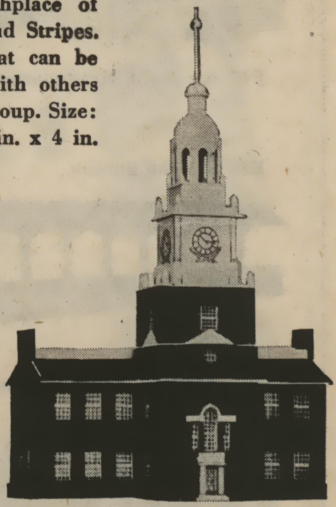


**SS-656 Washington's headquarters at Valley Forge. A typical Pennsylvania farm house. It was from here that General Washington commanded his "Barefoot" army. Size: 8¼ in. x 5 in. x 4 in. high.**



**SS-658 Betsy Ross House. Birthplace of the Stars and Stripes. A house that can be combined with others to form a group. Size: 7 in. x 2½ in. x 4 in. high.**

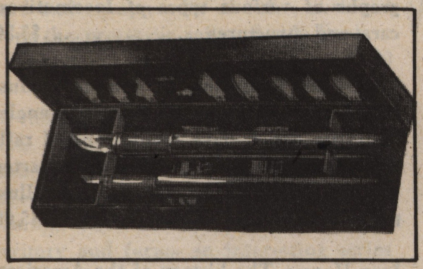
**SS-663 Old Swedes' Church. Rich in historic tradition. One of the three oldest churches in the nation. A beautifully scaled model. Size: 11½ in. x 8½ in. x 10 in. high.**



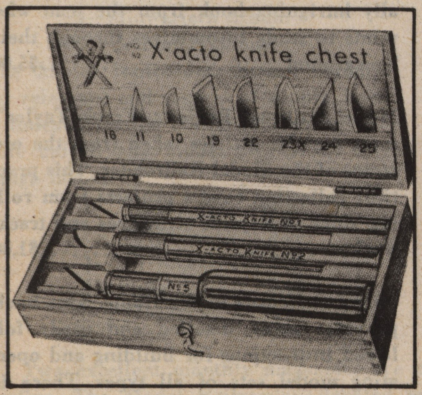
**SS-655 Independence Hall. Number one shrine of America's freedom. Included in the detail of this historic hall is a translucent clock face. Size: 6¾ in. x 4¾ in. x 9 in. high.**

# X-acto Knives with Detachable Blades

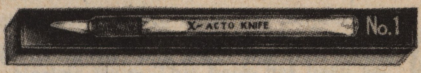
These new knives with plastic handles and surgical steel blades are sturdy in construction. Three types of knives will serve every need of any model builder. The easy-to-change blades are designed for all types of work and hold their edge as only surgical steel can. A simple twist of the metal collar will release the blade of any knife from the "Bull-Dog" like grip, ready to insert a blade of another shape. These blades cannot fold under and speed up your production.



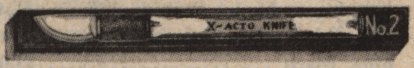
EX-63 Double Knife Set. 2 handles and 12 assorted blades.



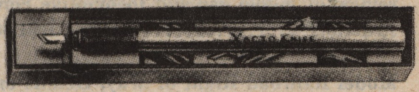

EX-82 Chest Set. 3 knife set in handy wooden chest of natural finish. Each blade has its own compartment and is easy to take out and replace. 12 assorted blades make this set complete.




EX-1 Knife with blade — accommodates blades 10, 11, 16. For light work.

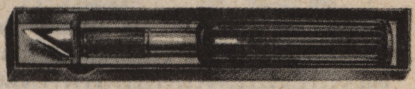



EX-2 Knife with blade — accommodates blades 19, 22, 23, x 24, 25. Heavy work.

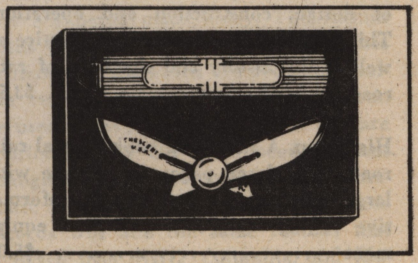


EX-51 Knife with EX-1 handle and six assorted Small blades.

EX-52 Knife with EX-2 handle and six assorted Large blades.



EX-5 Mat Knife with 2 No. 24 blades.



A Pocket Knife with 2 extra blades. The blade slides out from the end and cannot fold under. A clasp on the end makes it a handy knife for any chain. It is only ⅛ inch thick, light, and well designed for appearance.

EX-66 Knife with Stainless Steel handle.
EX-67 Knife with Sterling Silver handle.

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Model Railroad Track and Layout. Everything on track construction and layout planning .....$1.00

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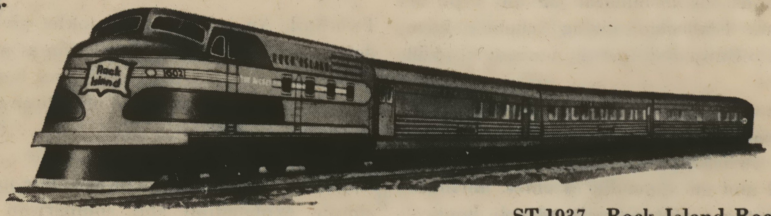
## *Streamlined MU Train*

This exact scale model of one of America's newest streamliners is constructed from a complete kit and powered with a W. K. Walthers power truck. The kit includes paints, printed panel sides, sandpaper, glue and wooden parts shaped and ready to assemble according to plans and instructions. The complete train is 36 inches long.



ST-1937 Rock Island Rocket

## *Picard HO and OO Body Kits*

These body kits are cut from a fine grade of Basswood, of a thickness that will not warp, and add necessary weight to keep the cars on the rail. The many car types available are cut to precision size and shape and can be assembled easily by any model builder. The parts are interchangeable and detail can be added according to the prototype. All the necessary parts are included except printed sides, paint, and glue. Specify gauge.

PN-101 36 ft. plain or scribed sides.
PN-102 40 ft. plain or scribed sides.
PN-103 41 ft. plain or scribed sides.
PN-104 42 ft. plain or scribed sides.

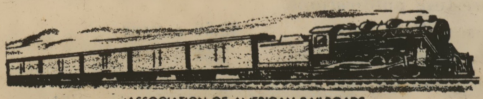
WAGON TOP
PN-105 40 ft. plain sides.
PN-106 41 pt. plain sides.
PN-107 50 ft. plain sides.

## *HO Boddington Car Kits*

These body kits are designed for the model builder that wishes to add the car details to each car according to its prototype. The body kit is made from sugar pine and is milled to shape. The roof and floor can be cut to car length and shaped to the desired curves at the ends. The sides are embossed foil and show all the rivet detail.

BO-1 Combination Car, green
BO-2 Combination Car, red
BO-3 Coach, green, Chesapeake & Ohio
BO-4 Coach, red


**"KEEPING 'EM ROLLING"**



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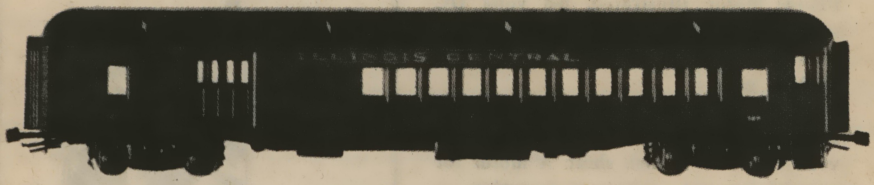
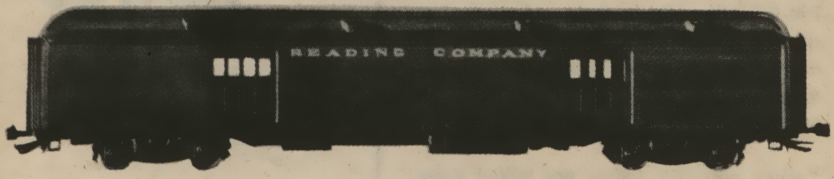
# 00 Passenger Car Kits

## *J-C Passenger Cars*

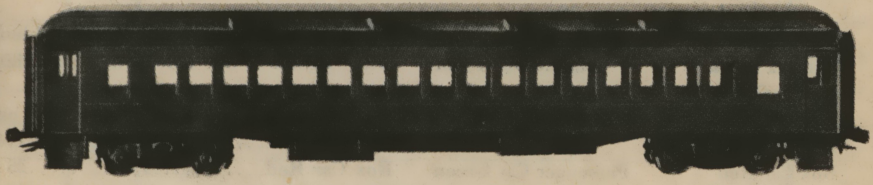
These body kits contain all the material needed to assemble a complete car body. The kit includes an accurately milled wood roof, floor, main beam, and all the necessary battery boxes, tool boxes, air reservoirs, cross beams, diaphrams, buffer plates, fan boxes, ventilators, and complete instructions and drawings for rapid assembly. The body kits do not contain any metal parts. Milled wood air ducts for air-conditioning cars are available at a slight additional cost.



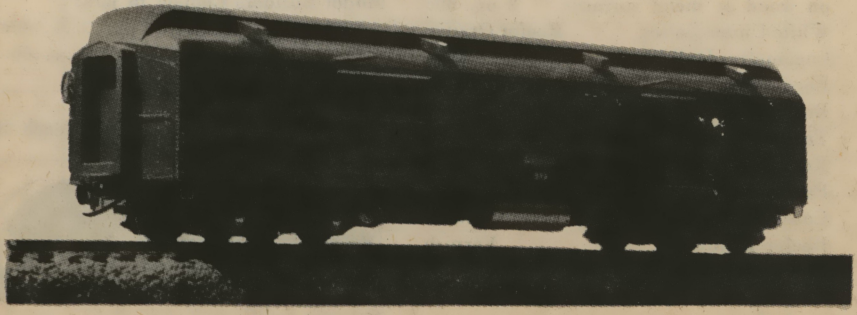
JC-10 Combinotion, 68 ft. (11 3/8" long)




JC-15 Baggage, 60 ft. (10 5/8" long)



JC-20 12-Section Pullman (13 1/2" long)
JC-25 Coach, 70 ft. (11 1/2" long)
JC-30 Baggage and Mail, 60 ft. (10 5/8" long)



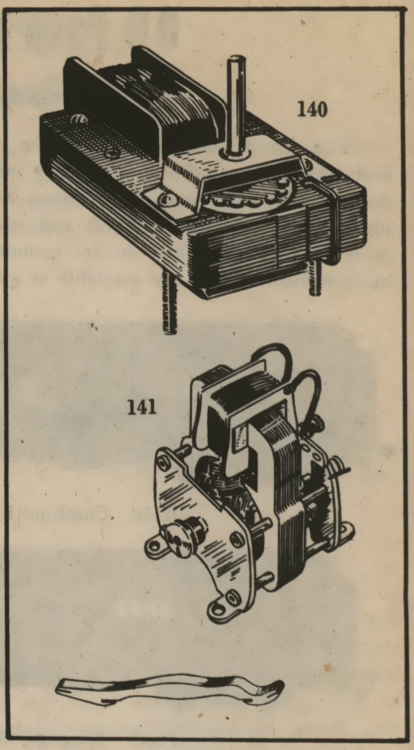
# Accessories

**PR-140 Rotomotor for Turntables and general powered equipment. AC 110 volts. 3/16 inch diameter shaft, self aligning oil retaining bearings. Regularly applied for 15 watts input. Consumes about 15 watts at 3,000 r.p.m. When geared down will constantly operate an 18 inch turntable with load of 200 lbs. dead weight.**

**PR-141 Motor illustrated, 6-8 volts DC with ⅛ inch shaft and pully collar. Suitable for operating bridges and electrical devices, etc.**

**PR-142 Motor smaller than the above, 4-6 volts DC with ⅛ inch shaft. A motor for general use and equipment operation.**

**PM-1 Sanding Stick. Strips of sandpaper can be easily changed and fold in securely at each end. The double end provides a different surface for getting into small corners and sanding thoroughly.**




Varney non-gloss paints are mixed especially for Varney car sides and kits

1 ounce.....30c

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| Dull Black | Metal Undercoater |
| Camera Black | Smoke Box Paint |
| Reefer Orange | Dusty Gray |
| Reefer Yellow | Aluminum |
| Roof Brown | White |
| Box Car Red | Passenger Car Green |

W. K. Walthers paint, perfect to match railroad colors, brushes and sprays evenly on wood or metal surfaces. 2 oz., 30c

| | |
|---|---|
| White Undercoating | Reefer Orange |
| Locomotive Dull Black | Canary Yellow |
| Locomotive Semi-gloss | Light Brown |
| Box Car Red | MDT Red |
| Tuscan Red | MDT Blue |
| Roof Brown | White |
| Pullman Green | Pearl Gray |
| Coach Green | Aluminum |
| Reefer Yellow | Varnish |

The above colors may be mixed to obtain different shades.

POLK'S railroad paint mixed to blend with standard car colors in convenient wide mouthed jars

| | 1 oz. | 2 oz. |
|---|---|---|
| Dull Black | 15c | 25c |
| Box Car Red | 15 | 25 |
| Tuscan Red | 15 | 25 |
| Pullman Green | 15 | 25 |
| Varnish (semi-gloss) | 10 | |

Model Builders Cement in jars:

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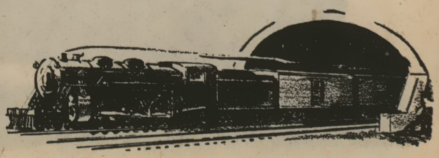
|---|---|
| 1 oz.....10c | 8 oz.....40c |
| 2 oz.....15 | 16 oz.....60 |
| 4 oz.....25 | |

Paint Brushes.....each 10c





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| | HOA-147 | 1.00 |
| 42.. | HOA-151 | |
| | through | |
| | HOA-156 | .35 |
| | HOA-157 | 1.25 |
| 43.. | HOA-150 | .30 |
| | HOR-187 | 1.75 |
| | HOR-188 | 1.75 |
| | HOR-189 | 1.75 |
| | HOR-190 | 1.75 |
| 44.. | HOR-158 | |
| | through | |
| | HOR-167 | 2.00 |
| 45.. | HOR-168 | |
| | through | |
| | HOR-171 | 2.25 |
| 46.. | HOR-172 | |
| | through | |
| | HOR-176 | 2.25 |
| 47.. | HOR-177 | |
| | through | |
| | HOR-185 | 2.25 |
| 48.. | HOR-191 | 1.00 |
| | HOR-192 | |
| | through | |
| | HOR-196 | .75 |
| 49.. | HOR-198 | |
| | through | |
| | HOR-202 | .75 |
| 50.. | HOR-203 | |
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| | HOR-205 | .90 |
| 51.. | HOR-206 | 1.50 |
| | HOR-207 | 1.50 |
| | HOR-208 | 1.00 |

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| 55.. | HOXR-260 | 1.50 |
| | HOXR-261 | 1.50 |
| 56.. | HOXR-257 | 3.00 |
| | HOXR-258 | 1.00 |
| | HOXR-259 | 1.00 |
| 57.. | HOS-262 | 2.00 |
| | HOC-263 | 1.00 |
| 58.. | HOF-264 | |
| | through | |
| | HOF-266 | 1.50 |
| | HOF-267 | |
| | through | |
| | HOF-269 | 1.50 |
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| | HOF-271 | .65 |
| 59.. | HOF-272 | 1.00 |
| | HOF-273 | .35 |
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| | HOF-275 | .35 |
| | HOF-276 | 1.75 |
| | HOF-277 | 1.75 |
| 60.. | HOP-278 | .75 |
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| | HOSH-280 | .75 |
| 61.. | HOG-281 | 1.00 |
| | HOG-282 | 1.00 |
| | HOG-283 | .30 |
| 62.. | HOG-284 | 2.00 |
| | HOG-285 | 2.00 |
| | HOG-286 | 2.00 |
| | HOG-287 | 1.50 |
| 63.. | HOG-288 | 1.75 |
| | HOG-289 | 1.75 |
| | HOG-290 | 1.75 |
| | HOH-291 | 1.50 |
| 64.. | HOH-292 | 1.00 |
| | HOH-293 | 1.00 |
| | HOH-294 | 1.00 |
| | HOH-295 | |
| | through | |
| | HOH-300 | 1.25 |
| 65.. | HOH-301 | 2.00 |
| | HOH-302 | 1.25 |
| 66.. | HOT-303 | |
| | through | |
| | HOT-314 | 2.25 |
| 66.. | HOT-315 | 1.75 |
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| | HOT-325 | 2.00 |
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| 68.. | HOCB-327 | 1.50 |
| | HOCB-328 | 1.50 |
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| 69.. | HOCB-331 | 3.00 |
| | HOCB-332 | 2.00 |
| | HOCB-333 | 2.00 |
| 70.. | HOCB-334 | 3.00 |
| | HOCB-335 | 2.50 |
| 71.. | HOCB-336 | 2.50 |
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| 95.. | MT-1 | 3.20 |
| | MT-2 | 4.50 |
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| | TM-6 | 2.50 |
| | TM-7 | 2.50 |
| | TP-8 | 1.95 |
| | TP-9 | 1.95 |
| | TP-10 | 1.95 |
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| | TP-15 | 4.50 |
| | TP-16 | 4.50 |
| | TP-17, ft. | .10 |
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| | TP-23 | 1.50 |
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| 96.. | TP-19 | 3.50 |
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| | TP-21 | 3.50 |
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| 97.. | TP-40 | .35 |
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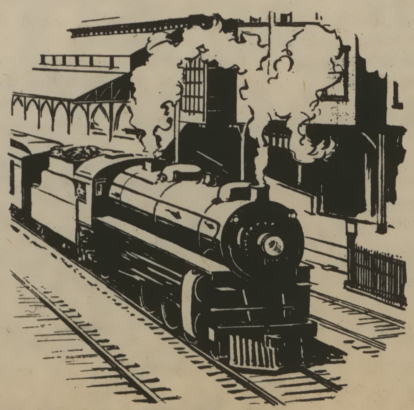

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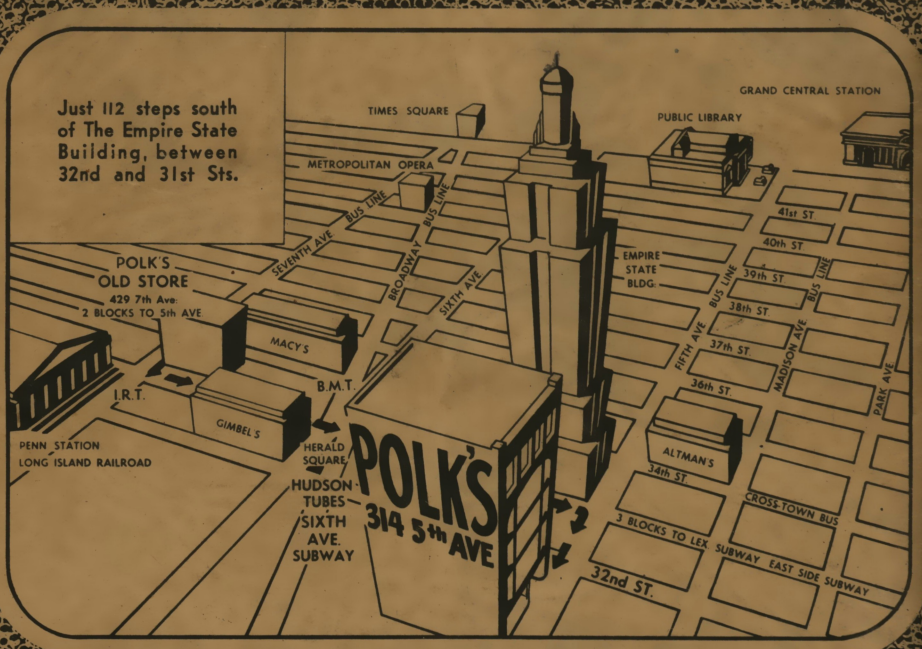


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